

# Karbosan

**PRODUCT  
CATALOGUE**

2025



**Karbosan**

Karbosan, Turkey's first manufacturer of bonded abrasive products, started its production activities in Istanbul Halkalı in 1967 with a workforce of 40 employees, established on an area of 9.000 m<sup>2</sup>.

Today, more than 700 employees and 95.000 m<sup>2</sup> area, Istanbul Halkalı and Tekirdağ Çerkezköy factories are offering quality, reliable and high performance products to more than 90 countries in 6 continents.

Thanks to the investments in innovation and R&D studies, Karbosan has a wide range of products for perfect surfaces.

With nearly 60 years of experience in production of high quality bonded abrasive products, Karbosan has built on its system to meet the needs and expectations of its customers with high performance, from raw material supply to after-sales services.

Karbosan is the first company in Turkey to produce bonded abrasives according to the ISO 9001 Quality Management System and the first Turkish company to be a member of European Abrasive Manufacturers Federation (FEPA) and Organization for the Safety of Abrasives (OSA) with high quality production.

The quality of Karbosan product range is certified by Turkish Standards Institute as TS EN 12413 for bonded abrasives and TS EN 13743 for coated abrasives.

Karbosan takes into consideration the environmental impacts and in every step from the raw material to the delivery of the product to the customers makes its production delicate to the nature according to ISO 14001 Environmental Management system.



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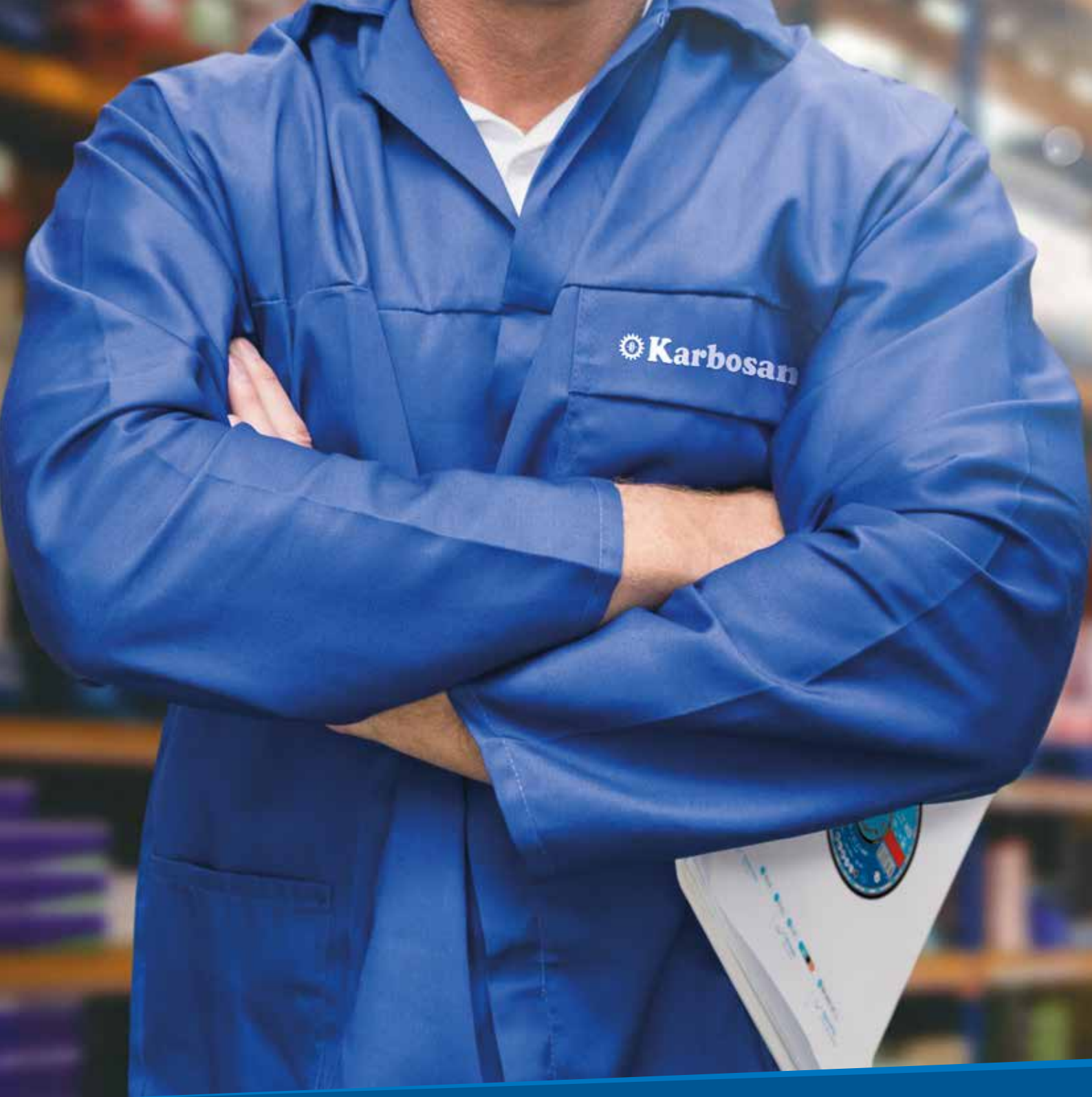


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## Company Profile



- Numbers & History

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- Why Karbosan?

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- Customer Experience

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- Production Facility

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- R&D Center

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- Karbosan Quality

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- Total Quality Management (TQM)

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- Memberships & Certifications

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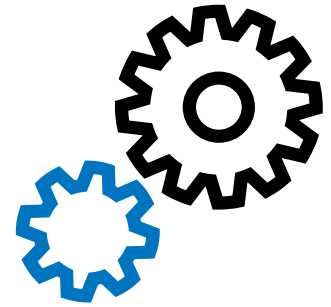
# Shaping The World



## Numbers

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**58** **since 1967**  
producing abrasives  
**years experience**



 **7000+**  
employee

**90+**   
export to country

 **95** **K+ m<sup>2</sup>**  
closed production area



# History

Started production in bonded abrasive industry with 40 workers at its 9.000 m<sup>2</sup> covered area factory in Halkalı, İstanbul.



1967

1975



The first company in Turkey to produce abrasive products with organic and inorganic binders.

Karbosan has TSE label since the beginning and its products was entitled by the European norm TS EN 12413 for bonded abrasives.



The first company producing abrasive products in Turkey according to ISO Quality Management System.



The first abrasive factory in Turkey to become a member of the Abrasive Safety Organization OSA.



2000

Karbosan has launched its new generation of Stainless Steel (Inox) Thin Cutting Discs.



Karbosan launched its new generation performance product Cut&Cut Plus Thin Cutting Discs.



2004



The quality of Karbosan products is certified by the Turkish Standards Institute (TSE) with the TS EN 13743 certificate for coated abrasives.

The establishment of Karbosan France brought Karbosan's quality and expertise to Europe as Turkey's leading abrasive manufacturer.



Karbosan opened its most technological production facility for the production of coated abrasives in Çerkezköy, Tekirdağ.



2009

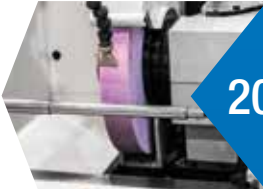
# History

2010



Karbosan launched its high performance innovative product ZA Casting Plus Cutting Discs.

2015



By improving the binders of resin and ceramic binder products, we started to produce products that are compatible with new generation abrasives and provide high performance in all application areas.

2017



Karbosan celebrated its 50th anniversary as a strong player in the abrasives industry.

2018



Karbosan production processes are certified with ISO 14001 Environmental Management System.

2020



Karbosan Veliköy Factory, which started production with sanding products, started the production of sanding stones.

2022



CZR71, Karbosan's wide and segmented belt products with silicon carbide abrasive grain, was launched.

2023



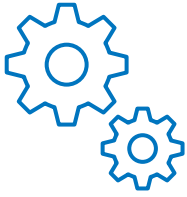
Karbosan ZA Cast Iron Plus Grinding Discs with zirconium abrasive grain has been launched.

Today



Since the day we were founded, we continue to offer abrasive solutions with our new generation products suitable for the needs of our customers.

## Why Karbosan?



Türkiye's First Abrasive Manufacturer

Nearly 60 Years of

**EXPERTISE**



With OSA Certified, Quality Tested Beyond Standards

**SAFETY**  
Products



Reducing Production Costs with its Lifetime and Performance

**COST-SAVING**  
Products



Solution Partner in All Processes From Pre-Sales to After-Sales

Top-Level  
**USER**  
**EXPERIENCE**



# Customer Experience

With its uninterrupted customer experience, Karbosan stands by you as your reliable solution partner at every step. From pre-sales inspection, application or consultancy processes to sales, after-sales product training, service or support processes, Karbosan produces solutions suitable for all your expectations and needs.

## Pre-Sale

## Sale

## After Sales

Review



Education



Application



Service



Consulting



Support



## Production Facility

Karbosan has the most technological abrasive production facility in Europe with a total closed production area of more than 95 K m2 for Abrasive Stones and Abrasive Products.



Karbosan Velikoy Plant



Abrasive Products Production Area



Sanding Stones Production Area



Interlining Production Area



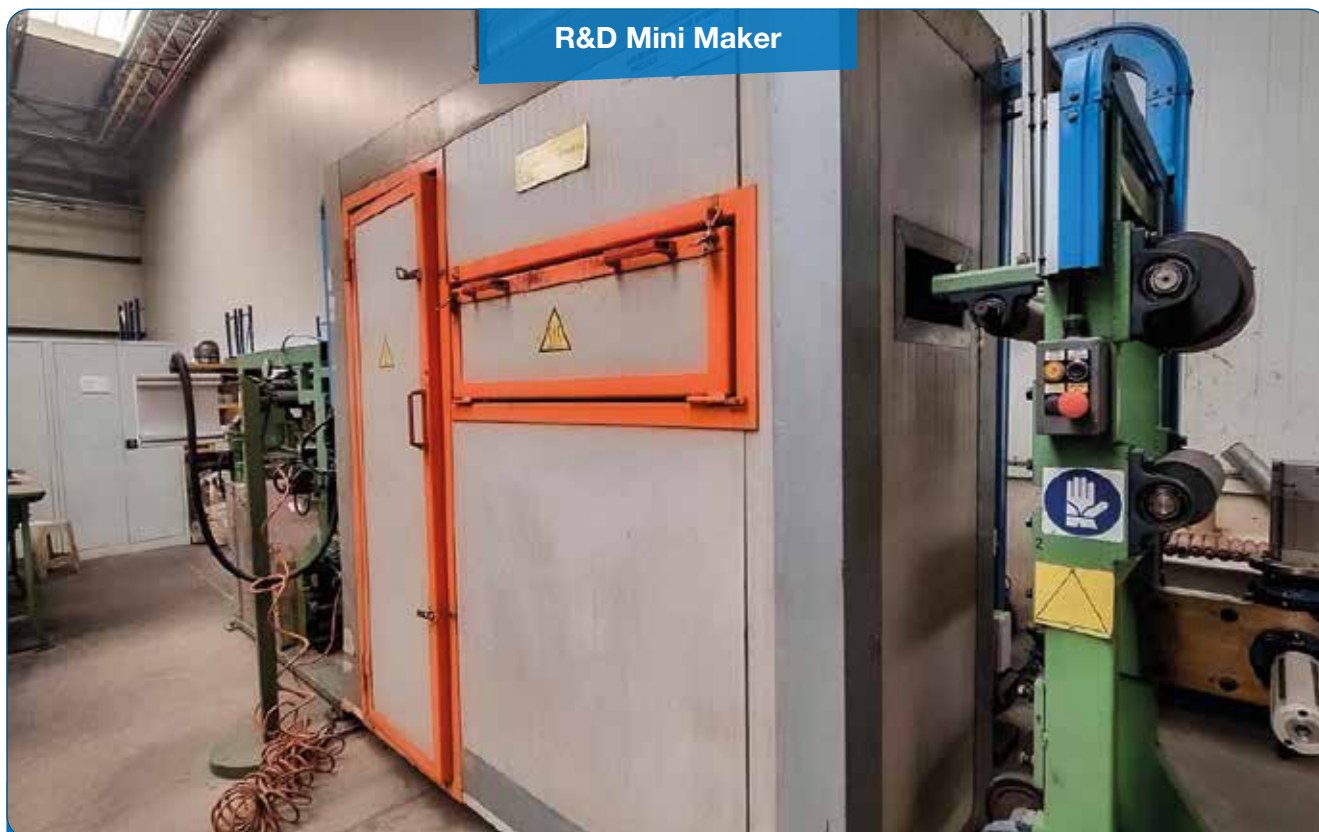
## R&D Center

### R&D Laboratory



Karbosan focuses intensively on product development activities in advanced laboratories with its experienced R&D team.

### R&D Mini Maker



Product development activities are carried out in many areas to improve product performance and quality.

## Karbosan Quality

Karbosan is a member of the Federation of European Abrasive Manufacturers (FEPA) and is the first Turkish company whose products are certified by the Organization for Abrasive Safety (OSA). Karbosan products are offered to users after undergoing safety tests above the standards. Karbosan follows a quality policy in accordance with the expectations and needs of its customers in all processes from raw material procurement to after-sales service. With its management, quality and safety certificates, Karbosan always produces at high levels of safety and quality above the stands.



**Abrasive Wheels Test Area**



**Abrasive Products Test Area**





## Total Quality Management (TQM)

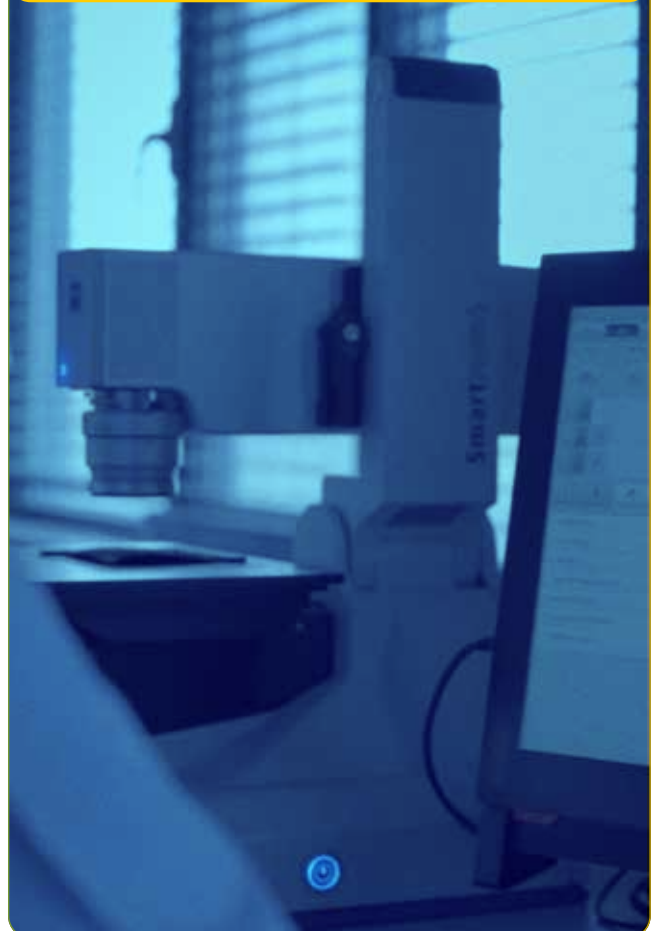
Karbosan has a Total Quality Management (TQM) system that controls quality from raw materials to the final product to ensure customer satisfaction and an excellent customer experience. Karbosan always follows the quality continuity in its products with the quality method it meticulously applies. It ensures that every product produced has the same quality and performance through batch tests.



**Abrasive Wheels Quality Laboratory**



**Abrasive Products Quality Laboratory**



## Memberships

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### Organization for the Safety of Abrasives (OSA) Membership Certification

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Karbosan is the first Turkish company as a member of Organization for the Safety of Abrasives (OSA) with its reliable production.



### Federation of European Producers of Abrasives (FEPA) Membership

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Karbosan is the first Turkish company as a member of Federation of European Producers of Abrasives (FEPA) with its high quality production.



### Coated Abrasive Fabricators Association (CAFA) Membership

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Karbosan is a member of Coated Abrasive Fabricators Association (CAFA) which connects suppliers and manufacturers in the industry.



### Sustainable European Abrasive Manufacturers Program (SEAM) Membership

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Karbosan is a member of Sustainable European Abrasive Manufacturers (SEAM) program. SEAM program is a FEPA initiative to commit continually improve sustainability for the environment, occupational health and safety and production processes.

## Certifications

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### ISO 9001:2015 Quality Management System Certifications

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Karbosan is the first Turkish company manufacturing abrasive product certified with ISO 9001 Quality Management System.



### ISO 14001:2015 Environmental Management System Certifications

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Karbosan production process is certified with ISO 14001 Environmental Management System.



TS EN 12413

### Turkish Standards Institute (TSE) TS EN 12413 Certification

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Karbosan products' quality is certified by Turkish Standards Institute (TSE) TS EN 12413 for bonded abrasives.



TS EN 13743

### Turkish Standards Institute (TSE) TS EN 13743 Certification

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Karbosan products' quality is certified by Turkish Standards Institute (TSE) TS EN 13743 for coated abrasives.



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## Application Areas







## Metal & Construction



### 115x1.0 Thin Line & ZA Thin Line Cutting Discs

Comfortable cutting high performance in thin cutters. It has aggressive abrasion capability with zirconium abrasive beads.



### 115x6.4 Grinding Discs

It is suitable for general purpose metal removal. Provides optimum performance in any application.



### Comfort Line Zirconia & Premium Line Zirconia Flap Discs

Comfort Line Zirconia Flap Disc cotton cloth abrasive backing ZXR11 used for low pressure and low power operations for Stainless Steel and Premium Line Zirconia Flap Disc polycotton cloth abrasive backing ZXPR22 used for high pressure and high power operations for Metal and Steel.



### ZWR11 Zirconia Fibre Disc

Ideal for sanding low alloy steel, stainless steel (Inox), high alloy steel, heat resistant steel and cast iron materials having standard vulcanized fibre backing and aggressive Zirconia abrasive grains.

## Wood & Furniture



### ACR31 Aluminum Oxide C Weight Paper Hook & Loop Disc

Ideal for sanding undercoated, painted and varnished surfaces in wood, automotive, paint and marine sectors, ACR31 having C weight paper backing with open coated Aluminum Oxide abrasive, also with anti-clogging Stearate coating which allows long lifetime and constant grinding.



### AJR12 Aluminium Oxide J Cotton Roll

Ideal for wood and metal in shoprolls and sheets. Flexible structure, easily tearable by hand.



### AJFR12 Aluminium Oxide J Flexible Cotton Endless Belt

J flexible cotton cloth backing with Aluminum Oxide abrasive AJFR12 is ideal for wood industry, furniture accessories, hardware and relevant sectors. Flexible structure and easily tearable by hand.



### AXOP21 Narrow Belts

Having Semi-Open Aluminum Oxide abrasives, AXOP21 with X cotton cloth backing is suitable for narrow belts.



## Wood & Metal Calibration



### AFR71 Aluminium Oxide F Weight Paper Segmented Belt

AFR71 is ideal for sanding wooden panels with single or double joint segmented belts. Having antistatic F weight paper, also antistatic coating (which prevents the sticking of dust) and closed coated Aluminum Oxide abrasive.



### CFR91 Silicon Carbide F Weight Paper Segmented Belt

CFR91 is ideal for sanding wooden panels with single or double joint segmented belts. Having antistatic F weight paper, also antistatic coating (which prevents the sticking of dust) and semi open coated Silicon Carbide abrasive.



### ZFR91 Zirconia F Weight Paper Segmented Belt

ZFR91 is ideal for sanding metal sheets with single or double joint segmented belts. Having antistatic F weight paper, also antistatic coating (which prevents the sticking of dust) and semi open coated Zirconia abrasive.



### CZR71 Silicon Carbide Z Polyester Cloth Segmented Belt

CZR71 is ideal for sanding wooden panels with single or double joint segmented belts. Having antistatic Z weight cloth, also antistatic coating (which prevents the sticking of dust) and closed coated Silicon Carbide abrasive.

## Floor Sanding



### **AFR71 Aluminium Oxide F Weight Paper Hook & Loop Disc**

AFR71 is ideal for floor sanding in hook&loop discs. Having antistatic F weight paper, also antistatic coating (which prevents the sticking of dust) and closed coated Aluminum Oxide abrasive.



### **CFR91 Silicon Carbide F Weight Paper Hook & Loop Disc**

CFR91 is ideal for floor sanding in hook&loop discs. Having antistatic F weight paper, also antistatic coating (which prevents the sticking of dust) and semi-open coated Silicon Carbide abrasive.



### **ZXPR22 Zirconia Y Polycotton Endless Belt**

Having Y poly-cotton cloth backing and 100% Zirconia abrasive, high stock removal and long life, ZXPR22 is ideal for floor sanding in endless belts.



### **CEYYR21 Ceramic YY Polyester Endless Belt**

Having YY polyester cloth backing and Ceramic abrasive, high stock removal and long life, CEYYR21 is ideal for floor sanding in endless belts.



# Shipyards



**115x7.0 Grinding Disc (Marin)**

It provides high performance in the grinding of welding places in the shipyard sector.



**125x4.0 Cut-Off & Grinding Disc**

It provides comfortable operation especially in deburring operations in narrow corners.



**CER51 Ceramic Top Size Fibre Disc**

Ideal for Shipyards industry in sanding stainless steel (Inox), high alloy steel and heat resistant steel and cast iron materials, having thicker vulcanized fibre backing and aggressive Ceramic abrasive grains, also heat absorbant Top Size.



**Premium Line Ceramic Top Size Flap Disc**

Premium Line Ceramic Top Size Flap Disc polycotton cloth abrasive backing CEY51 is ideal for Shipyards Industry and used for high pressure and high power operations for Metal and Steel.

## Foundry



### Swing Frame Grinding Wheels

It is suitable for grinding burrs and feeder parts of large casting blocks. Ideal for various applications in foundry industry.



### 230x3.8 AC Industry Cut-Off Disc

Used for cutting ductile iron and cast iron burrs. Ideal for various applications in foundry industry.



### 230x7.0 ZA Grinding Disc

It is used for heavy cast burrs grinding. Ideal for various applications in foundry industry.



### Endless Belts with YY Polyester Cloth Backing

Having YY polyester cloth backing, high stock removal and long life, various types of products are ideal for sanding various types of castings with endless belts. ZYYR11 with 100% Zirconia, ZYYR51 with 100% Zirconia with Top Size, CEYYR51 Ceramic with Top Size, CEYYR52 Ceramic & Zirconia with Top Size.



## Polishing



### AHR31 Aluminum Oxide Polyester Film Hook & Loop Disc

Ideal for sanding various types of surfaces in automotive, paint, marine and stainless steel sectors, AHR31 having polyester film backing with semi open coated Aluminum Oxide abrasive, also with anti-clogging Stearate coating which allows faster cutting, long lifetime and constant grinding. Ideal for sanding paint and primer in automotive industry. Suitable for dry and wet applications. Tear resistant.



### AJFR13 and AJFR10 Aluminium Oxide Top Size J Flexible Polycotton Endless Belts

Highly durable and flexible J Flexible Polycotton cloth backing with Aluminum Oxide grain allows perfect surfaces in various types of applications in polishing industry. AJFR13 as the standart version, AJFR10 as the heat resistant Top Size version.



### Flap Wheel With Flange and Keyway Flap Wheels

Suitable for grinding wide and cylindrical parts both for inner and outer surfaces. Used in grinding various formed surfaces such as pots and pans. Suitable for both fixed and hand tools.



### AGYYR21 Compact Aluminium Oxide Endless Belt and Hook & Loop Disc

AGYYR21 with Compact Aluminum Oxide grain and YY Polyester cloth backing is served as endless belts and hook & loop discs for continual and long lasting stock removal of high alloy steel, stainless steel and low alloy steel.



## Glazing & Stone & Granite



### Marble Cut-Off Discs

Suitable for cutting artificial and natural rocks such as marble, brick, concrete, tile, shingle, curbstone. Featuring Silicon Carbide mixture abrasive grains and a hard structure, the product offers long lifespan and advantage of convenient cutting.



### 230x2.3 Diamond Blade

Suitable for wet or dry precision cutting processes of tiling, in particular and materials such as granite, marble, ceramic and brick. It does not break the material edges during cutting process.



### CYXR11 Silicon Carbide YY Polyester Endless Belt

Having YY polyester cloth backing and Silicon Carbide abrasive, high stock removal and long life, CYXR11 is ideal for sanding glass with endless belts.

## Knives & Cutlery & Kitchen



### AJFR10 Aluminum Oxide Top Size J Flexible Polycotton Endless Belt

Highly durable and flexible J Flexible Polycotton Cloth backing, Aluminum Oxide grain and heat resistant Top Size coating AJFR10 allows perfect surfaces in various types of applications in knives and cutlery industries.



### CEF51 Ceramic Top Size J Flexible Polycotton Endless Belt

Highly durable and flexible J Flexible Polycotton Cloth backing, Ceramic grain and heat resistant Top Size coating CEF51 allows perfect surfaces in various types of applications in knives and cutlery industries.



### ZYYR11 Zirconia YY Polyester Endless Belt

Having YY polyester cloth backing and 100% Zirconia abrasive, high stock removal and long life, ZYYR11 is ideal for sanding knives, cutlery and kitchen accessories with endless belts.



### Flap Wheel With Flange and Keyway Flap Wheels

Suitable for grinding wide and cylindrical parts both for inner and outer surfaces. Used in grinding various formed surfaces such as pots and pans. Suitable for both fixed and hand tools.



## Automotive



### Crankshaft Grinding Wheels

It is used for precision grinding of crankshafts. Specially designed products according to the grinding machine type having dimensions, types and specifications suitable for the machine.



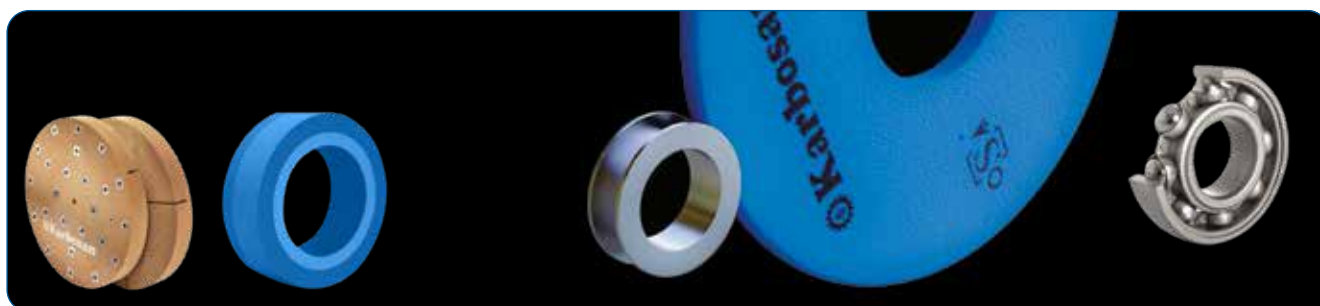
### Camshaft Grinding Wheels

It is suitable for precision grinding of camshafts. Thanks to the special abrasives in its structure, it does not cause burns on the ground surface. Provides superior performance on all types of camshaft surfaces. Specially designed products according to the grinding machine type having dimensions, types and specifications suitable for the machine.



### Gear Grinding Wheels

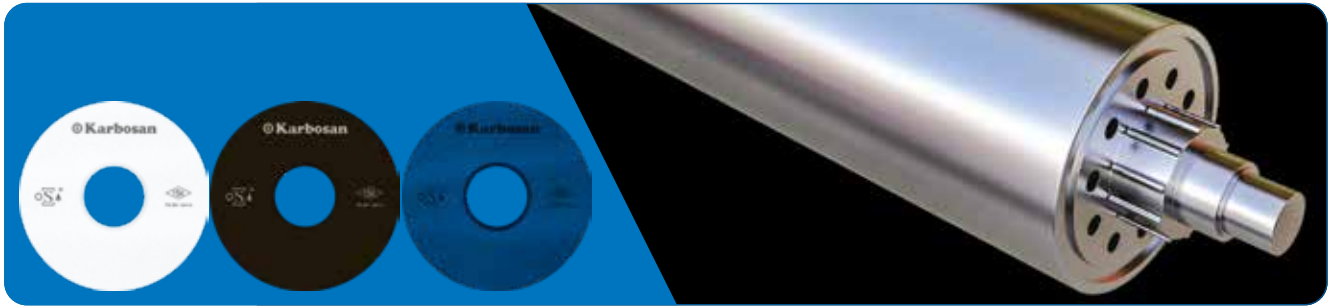
In gear production, Karbosan has two successful types of grinding wheels. Single flank and worm type. Specially designed abrasive grains act as aggressive stock removing agents in gear profiles and leave a smooth surface in gear flanks. We can produce and alter the specifications according to gear modules and expectations.



### Bearing Grinding Wheels

Used for grinding of bearings. This includes generally every profile and every surface of bearings. Using special alumina abrasives and after years of experience, stock removal and surface finish are enhanced upon customer feedbacks and expectations.

## Roll Grinding



### Grinding Wheels with New Generation Abrasive Grains

Karbosan new generation abrasive grains are specially produced for controlled friability which provides self-sharpening features. These wheels are selected mainly for high stock removal on hard-to-grind parts. Our wheels are customised in accordance with the machine specifications used in the industry.



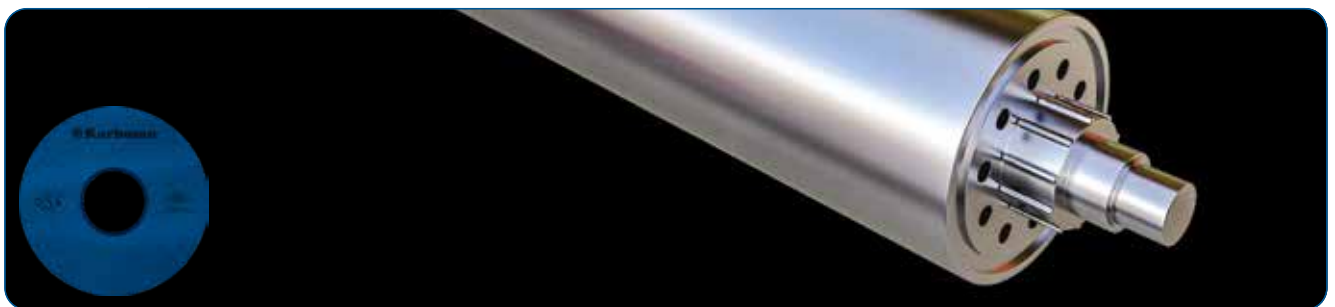
### Resin Bonded Roll Grinding Wheels

With resin bonded structure, Roll Grinding wheels play a key role in sheet metal fabrication industry. Specially designed abrasive grains exhibit high stock removal on this hard-to-grind parts as long as providing the desired surface finish. In addition, resin bonding provides a consistent stock removal capacity without causing wheel clogging and chatter marks on the roll workpiece. Our resin bonded roll grinding wheels are mainly suitable for Indefinite Chill Cast Iron rolls and High Speed Steel Rolls used in hot roll strips.



### Vitrified Roll Grinding Wheels

With vitrified bonded structure, Roll Grinding wheels play a key role in sheet metal fabrication industry and specially on aluminum and paper rolling. Vitrified bonds and the controlled porosity in these wheels, provide better surface finish and avoid burn marks on the workpiece. It also maintains the part dimension with controlled friability of the abrasive grains that are engineered for this purpose. Vitrified Roll Grinding Wheels are mainly preferred on Cr3, Cr5 and Cr12 Drop Forged Steel Rolls and High Speed Steel Rolls in both cold and hot roll strip facilities where the surface finish is the primary target rather than high stock removal capacities.



### Grinding Wheels for Roll Bearings

These special wheels are selected for grinding of roll bearing parts, usually just after the production of the rolls. Wheels are customised according to machine types and customer expectations.



## Railway & Transportation



**350x4.0x25.4 ZA Railway Cut-Off Disc**

It is suitable for all rail cutting operations. Special zirconium oxide and product with aluminum oxide abrasive grains and hard structure, no runout, no vibration, high number of cuts and fast cutting has the advantage.



**100x110xM20 Railway Grinding Wheel**

It provides comfortable grinding with its superior performance in rectification of rails. Special zirconium oxide and Aluminum oxide has abrasive grains and a hard structure providing aggressive etching.



**152x75x57 Railway Grinding Wheel**

It provides comfortable grinding with its superior performance in rectification of rails. Special zirconium oxide and Aluminum oxide has abrasive grains and a hard structure providing aggressive etching.



**125x65x27 Railway Grinding Wheel by Hand**

It provides comfortable grinding with its superior performance in rectification of rails. Special Zirconium Oxide and Aluminum Oxide has abrasive grains and a hard structure providing aggressive etching.

## Plastic & Rubber & Leather



### Grinding Wheels

Suitable for by-hand sharpening operations of various materials. Only used on bench grinding machines in facilities and almost every type of material shall be used for sharpening or deburring purposes. Offers a maximum cutting speed of 35 m/sn.



### Grinding Wheels for Rubber Rolls

These special wheels are used to grind Rubber and Polyethylene Rolls in various industries. Karbosan grinding wheels offer high stock removal capabilities however exhibits heat generation on the rolls.



### AYXR11 Narrow and Wide Belts

Close coated Aluminium Oxide abrasives with YY Polyester cloth backing AYXR11 are suitable for narrow and wide belts; used in sanding plastic, rubber and leather.



### ZYYR11 Zirconia YY Polyester Endless Belt

Having YY polyester cloth backing and 100% Zirconia abrasive, high stock removal and long life, ZYYR11 is ideal for sanding shoes with endless belts.









3

Products





- Bonded Abrasives

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- Diamond Blades

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- Coated Abrasives

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# Bonded Abrasives





- [Technical Information](#)

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- [Technical Table](#)

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- [Resin Bonded Products](#)

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- [Vitrified Bonded Products](#)

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# Abrasive Grains

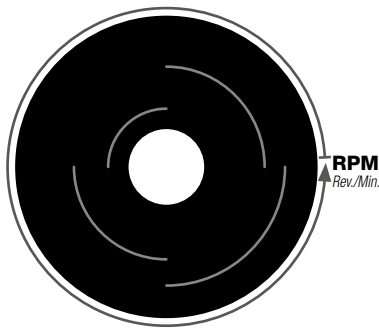
Abrasive Grain Type	Description
<b>Silicon Carbide (C)</b>	Very hard and brittle abrasive for surface grinding of glass or stone materials and grinding and cutting processes of cast iron materials
<b>Aluminum Oxide (A)</b>	Hard and durable abrasive for grinding and cutting of alloyed, non-alloyed steel and stainless steel (Inox) materials
<b>Zirconia (Z)</b>	Hard and very durable abrasive for grinding and cutting processes of alloyed, high-alloyed steel and cast steel materials
<b>Ceramic (Cu)</b>	Hard and very durable, long-lasting and self sharpening abrasive for grinding and cutting processes of high-alloyed steel and hardened steel materials

## Revolution and Peripheral Speed Values

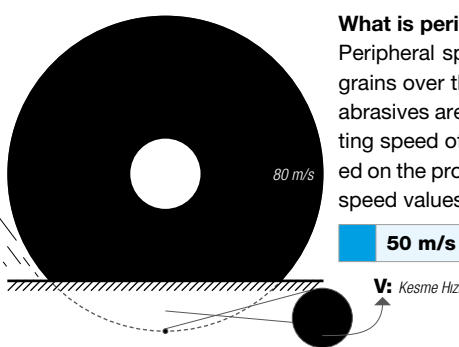
### Operating Speed

Maximum peripheral speed and maximum revolution speed of any product used for cutting or grinding process are indicated on the product label. Also, maximum peripheral speed value is defined clearly with a flat and colored stripe located on the label. Maximum operating speeds of the products are determined according to TS EN 12413 standard. Maximum peripheral speed and maximum revolution speed indicated on the label should never be exceeded in order to ensure safe operation of the product. The following graphics define the revolution speed, peripheral speed and definitions of the colored stripes.

#### Revolution Speed (RPM: Revolutions/Minute)



#### Peripheral Speed (m/s: Meters/Second)



#### What is peripheral speed?

Peripheral speed defines the passage speed of the abrasive grains over the workpiece. Its unit is meter / second. Bonded abrasives are generally manufactured to be operated at a cutting speed of 35 to 100 m/s. A flat and colored stripe is located on the product label for peripheral speed values. Peripheral speed values symbolized by these stripes are as follows;



### Speed Conversion Chart

The following chart represents the cutting speed and r.p.m relation according to the wheel diameter.

External Diameter mm	Peripheral Speed m/s										
	16	20	25	32	35	40	45	50	63	80	100
80	3.850	4.800	6.000	7.650	8.400	9.550	10.750	12.000	15.100	19.100	23.900
100	3.100	3.850	4.800	6.150	6.700	7.650	8.600	9.550	12.100	15.300	19.100
115	2.700	3.350	4.200	5.350	5.850	6.650	7.500	8.350	10.500	13.300	16.650
125	2.450	3.100	3.850	4.900	5.350	6.150	6.900	7.650	9.650	12.250	15.300
150	2.050	2.550	3.200	4.100	4.500	5.100	5.750	6.400	8.050	10.200	12.700
180	1.700	2.150	2.700	3.400	3.750	4.250	4.800	5.350	6.700	8.500	10.650
200	1.550	1.950	2.400	3.100	3.350	3.850	4.300	4.800	6.050	7.650	9.550
230	1.350	1.700	2.100	2.700	2.950	3.350	3.750	4.200	5.250	6.650	8.350
250	1.250	1.550	1.950	2.450	2.700	3.100	3.450	3.850	4.850	6.150	7.650
300	1.050	1.300	1.600	2.050	2.250	2.550	2.870	3.200	4.050	5.100	6.400
350 / 356	875	1.100	1.400	1.750	1.950	2.200	2.450	2.750	3.450	4.400	5.500
400 / 406	765	960	1.200	1.550	1.700	1.950	2.150	2.400	3.050	3.850	4.800
450 / 457	680	850	1.100	1.400	1.500	1.700	1.950	2.150	2.700	3.400	4.250
500 / 508	615	765	960	1.250	1.350	1.550	1.750	1.950	2.450	3.100	3.850
600 / 610	510	640	800	1.050	1.150	1.300	1.450	1.600	2.050	2.550	3.200
650 / 660	460	580	720	930	1.010	1.160	1.300	1.450	1.820	2.320	2.900
750 / 762	410	510	640	820	895	1.050	1.150	1.300	1.650	2.050	2.550
800 / 813	385	480	600	765	840	960	1.075	1.200	1.550	1.950	2.400
900 / 914	340	425	535	680	750	850	955	1.100	1.350	1.700	2.150
1000 / 1015	310	385	480	615	670	765	860	960	1.250	1.550	1.950
1060 / 1067	295	365	455	585	640	730	820	910	1.150	1.500	1.850

# Types

Symbols on the labels or the surfaces of bonded abrasives indicate the form of the product.

**Type 1**  
Straight grinding wheel

$D \times T \times H$

**Type 2**  
Cylinder wheel,  
cemented or clamped

$D \times T \times W$

**Type 3**  
Wheel tapered on one side

$D/J \times T \times H$

**Type 4**  
Wheel tapered on both sides

$D \times T \times H$

**Type 5**  
Wheel, recessed on one side

$D \times T \times H - P \times F$

**Type 6**  
Straight cup wheel

$D \times T \times H - W \times E$

**Type 7**  
Wheel recessed on both sides

$D \times T \times H - P \times F/G$

**Type 9**  
Double cup wheel

$D \times T \times H - W \times E$

**Type 11**  
Taper cup wheel

$D/J \times T \times H - W \times E$

**Type 12**  
Tabak Taşlama Taşı

$D/J \times T \times H$

**Type 13**  
Saucer

$D/J \times T/U \times H - K$

**Type 20**  
Wheel relieved on one side

$D/K \times T/N \times H$

**Type 21**  
Wheel relieved on both sides

$D/K \times T/N \times H$

**Type 22**  
Wheel relieved on one side,  
recessed on the other side

$D/K \times T/N \times H - P \times F$

**Type 23**  
Wheel relieved and  
recessed on one side

$D \times T/N \times H - P \times F$

**Type 24**  
Wheel relieved and recessed on one side,  
recessed on the other side

$D \times T/N \times H - P \times F/G$

**Type 25**  
Wheel relieved and recessed on one side,  
relieved on the other side

$D/K \times T/N \times H - P \times F$

**Type 26**  
Wheel relieved and  
recessed on both sides

$D \times T/N \times H - P \times F/G$

**Type 27**  
Depressed centre wheel for grinding or grind-  
ing / cutting including semiflexible wheels

$D \times U \times H$

**Type 28**  
Depressed centre grinding wheel  
Cone-shaped

$D \times U \times H$

**Type 35**  
Disc wheel, cemented or  
clamped

$D \times T \times H$

**Type 36**  
Inserted nut disc

$D \times T \times H$

**Type 37**  
Inserted nut cylinder

$D \times T \times W$

**Type 38**  
Single hubbed wheel

$D/J \times T/U \times H$

**Type 39**  
Double hubbed wheel

$D/J \times T/U \times H$

**Type 40**  
Wheel with single hub and a single recess  
on the other side

$D/J \times T/U \times H - P \times F$

**Type 41**  
Flat cutting-off wheel

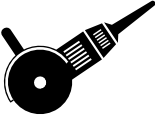

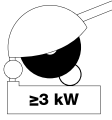
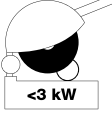
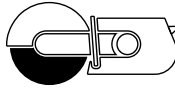
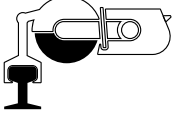
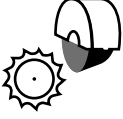
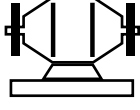
$D \times T \times H$

**Type 42**  
Depressed centre  
cutting-off wheel



















$D \times U \times H$

# Pictogram and Symbols

## Machine Pictograms

	Hand-held Angle Cutting Machine		Hand-held Angle Grinding Machine		Stationary Cutting Machine ≥3 kW
	Stationary Cutting Machine <3 kW		Petrol Saw		Rail Cutting Machine
	Tool Sharpening Machine		Bench Grinding Machine		

## Safety Pictograms and Information Symbols

	Read the Operating Instructions		Wear Eye Protection		Wear Ear Protection		Wear Protective Gloves
	Wear Respiratory		Never Use A Damaged Bonded Abrasive!		Do Not Perform Grinding!		Only permitted for grinding at an angle greater than 10°
	Not Suitable For Portable Grinding Machine!		Only suitable for totally-enclosed machines		Suitable for Wet Use		Not Suitable for Wet Use!
	The Product Does Not Contain Iron (Fe) and Sulfur (S).		Suitable for Cutting and Grinding Operations		Correct Assembly Method		Incorrect Assembly Method
	Standard Compliance Marking TS EN 12413		OSA Membership Logo				





# Safety Recommendations for Use

Inadequate use of bonded abrasives is very dangerous. Attention should be paid against the risks which may occur during the use of bonded abrasive and the necessary measures that need to be taken should be examined. Only the bonded abrasives conforming to the highest safety standard EN 12413 and bearing that mark should be used. They should never be used with a machine which does not function properly or which has defective-missing parts. Employers should carry out risk assessment on all individually operated abrasive systems and they should ensure that the employees have received the suitable training in order to fulfill their tasks.

## Precautions Against Possible Risks

### Physical Contact with Abrasive Wheels

- The utmost care and attention should always be taken when using abrasive wheels. Long hair should be tied from behind, loose garments, ties and jewelry should not be worn.
- To prevent any unintended start-off of the machine prior to installation or replacement of the abrasive wheel, the machine should be disconnected from the power supply or plugged off.
- Never dismount the guards (protective equipment) of the machines. Ensure that machine guards are in good condition and properly adjusted before operating the machine.
- If the workpiece or the machine is operated manually, always wear gloves and suitable clothes. Minimum protection level for the gloves should conform to category 2 in EN 388 standard.

### Injuries Which can be Caused by Broken Abrasive Wheels

- Always handle abrasive wheels with utmost care and attention since they are easily damaged. Examine all abrasive wheels for damages or defects before use.
- Store abrasive products in dry and frost-free conditions avoiding wide variations in temperature. Ensure they are properly protected to prevent damage and distortion.
- Abrasive wheels which have reached the date of expiry should never be used. Recommended shelf life for abrasive wheels can be specified as follows according to the binding material they contain; 3 years for organic and shellac bonded products, 5 years for rubber bonded products, 10 years for inorganic bonded products.
- The abrasive wheel or its packaging should be checked for any warning information or other safety information.
- Ensure that the right abrasive wheel is selected. Never use a product without any information about its application area.
- Follow the instructions provided by the abrasive wheel or machine supplier when mounting bonded abrasives.
- Never exert excessive force when mounting any products on the equipment. The mounting equipment should not be modified to fit any unsuitable product.
- Never exceed the maximum operating speed specified on the abrasive wheel.
- Check that the correct mounting equipments are used and that they are undistorted, clean and free from rust.
- Use mounting blotters supplied by the supplier.
- After mounting an abrasive wheel on the machine, conduct a trial run at its own operating speed with the protective equipment of the machine in place for at least 30 seconds before use.
- Never dismount the guards (protective equipment) of the machines. Ensure that the machine guards are in good condition and properly adjusted.
- Ensure that the workpiece is supported safely and properly. Ensure that the clamps are adjusted properly and in a safe position.
- Never start the machine while the abrasive wheel installed on the machine is in contact with the workpiece.
- Avoid exerting excessive load or sudden pressure on the abrasive wheel and do not allow overheating

- Sections of the abrasive wheels not designed for grinding should not be used.
- The surface of the wheel should be reprocessed with dressing tools at suitable frequency to ensure efficient operation of the abrasive wheel and to prevent clogging or irregular wearing phenomena.
- Abrasive wheel should be allowed to stop by itself, never attempt to stop it by exerting any pressure on the surface.

### Noise

- Ear protection is recommended to conform to EN 352 standards for all applications (manually fixed workpiece or machine) regardless of the sound level.
- Ensure that the right abrasive wheel is selected for the operation. An unsuitable abrasive wheel can produce excessive noise.

### Vibration

- Processes where the workpiece or the machine is hand-held can cause injuries due to the vibrations.
- Work should be interrupted if tingling, sense of pinpricking or numbness is experienced after continuously using the abrasive product for more than 10 minutes.
- The effects of vibration are felt more in cold conditions so keep your hands warm and regularly exercise hands and fingers. Use modern equipment with low vibration levels.
- Maintain all equipment in good condition and stop the machine and have it checked if excessive vibration occurs.
- Use good quality abrasive wheels and keep them in good condition during their lifespan.
- Maintain mounting flanges in good condition and replace such equipment with new ones if they get worn-torn or distorted.
- Do not grip the workpiece or machine too tightly and do not exert excessive pressure on the abrasive wheel.
- Avoid continuous operation of abrasive wheels.
- Use the correct product. An unsuitable abrasive wheel can produce excessive vibration.
- Don't ignore the physical problems occurred due to vibration - seek medical advice.

### Disposal of Abrasive Wheels

- Used or defective abrasives should be disposed of in accordance with local or national regulations.
- Further information can be obtained from Product Information sheets provided by the supplier.
- Be aware that the abrasive product may be contaminated with material from the workpiece or the work process after use.
- Abrasive wheels which are to be discarded should be damaged before their disposal so that their reuse is prevented.

Application Type	Product Type	Application Material	Specification					Product Form		Application Method						
			Abrasive Grain Type	Grit Size	Hardness	Binder Type	Peripheral Speed	Flat	Depressed Center	Hand Grinder	Fixed Cutting Bench (<3kW)	Fixed Cutting Bench (≥3kW)	Portable Gas Operated Cutter	Fixed Power Rail Cutter		
Cut-Off Discs	Thin Line Cut-Off	Metal	A	54	R	BF	80	●		●						
			A	46	R	BF	80	●		●						
			A	36	R	BF	80	●		●						
		Stainless Steel (Inox)	AA	60	R	BF	80	●	●	●						
			AA	54	R	BF	80	●		●						
			AA	46	R	BF	80	●		●						
			AA	36	R	BF	80	●		●						
			Aluminium	A	54	Q	BF	80		●	●					
				A	46	Q	BF	80		●	●					
		Plus Thin Line Cut-Off	Metal / Stainless Steel (Inox)	ZA	46	R	BF	80	●		●					
				CuA	542	T	BF	80	●		●					
				CuA	462	T	BF	80	●		●					
	Cut & Cut		CuA	362	T	BF	80	●		●						
			Metal	A	36	T	BF	80	●	●	●					
				Stainless Steel (Inox)	AA	24	S	BF	80	●	●	●				
	Cut-Off	Aluminium	A	36	Q	BF	80		●	●						
			Cast Iron	C	30	S	BF	80	●	●	●					
				C	30	R	BF	80	●	●	●					
			Plus Cut-Off	Metal	A	30	T	BF	80	●	●	●				
	ZA	30			TX	BF	80	●	●	●						
	Cast Iron	AC		36	SX	BF	80	●	●	●						
	Fixed Bench Cut-Off	Metal	A	30/36	P	BF	80	●			●	●				
			A	36/46	P	BF	80	●			●	●				
			A	30/36	S	BF	80	●				●				
		Cast Iron	C	24	S	BF	80	●			●	●				
			Gas Operated Cut-Off	C	24	S	BF	100	●					●		
		Rail Cut-Off	Metal	A	36	R	BF	100	●						●	
	Plus Rail Cut-Off	Rail	ZA	30	R	BF	100	●						●		
	Cut-Off / Grinding Discs	Cut-Off / Grinding	Metal	A	24/36	ST	BF	80		●	●					
	Grinding Discs	Grinding	Metal	A	24	RS	BF	80		●	●					
Stainless Steel (Inox)				AA	24	P	BF	80		●	●					
Cast Iron			C	24	S	BF	80		●	●						
Aluminium			A	24	N	BF	80		●	●						
Plus Grinding		Metal	A	30	Q	BF	80		●	●						
			Cast Iron	ZA	24	R	BF	80		●	●					
Grinding Wheels	Grinding Wheels	Flared Cup Wheel	C	16	L5	BB				●						
		Flat Cup Wheel	C	16	L5	BB				●						
		Marble and Mosaic Cup Wheel	C	16	L5	BB				●						
		NK Recess Grinding Wheel	NK	80	Q4	BA				●						





# Resin Bonded Products



- Cut-Off Discs
- Grinding Discs
- Grinding Wheels





# Cut-Off Discs







## Label Information

Brand

Specification

Dimension

Maximum Revolution and Maximum Operation Speed Information

Safety and Personal Protective Equipment Pictograms

Application Area

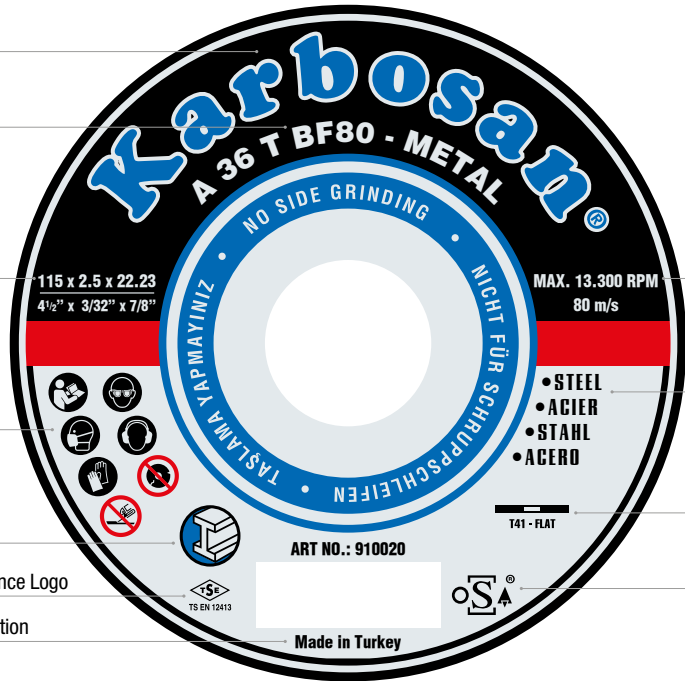
Material Pictogram

Type Pictogram

Turkish Standards Institute Compliance Logo

OSA Membership Logo

Article, Barcode, Manufacture Location



## Specifications Definition

# A

# 36

# T

# BF

# 80

Abrasive Type	Abrasive Grain Size	Grade Hardness	Bond Type	Peripheral Speed (m/s)
<b>A</b> Aluminum Oxide	<b>Coarse</b> 8, 10, 12, 14, 16, 20, 24	<b>Hard</b> P, Q, R, S,	<b>BF</b> Synthetic Resine (Fiber Reinforced)	Figure indicating the revolution speed of the product in meter / second.
<b>AA</b> Special Aluminum Oxide	<b>Medium</b> 30, 36, 46, 54, 60	<b>Very Hard</b> T, U, V, W,		
<b>AC</b> Special Aluminum Oxide & Silicon Carbide				
<b>Cua</b> Special Aluminum Oxide				
<b>C</b> Silicon Carbide				
<b>ZA</b> Special Zirconium Oxide & Aluminum Oxide				

## Material Pictograms and Colors

Karbosan bonded abrasives are classified according to application types for full performance and safe use. This classification is indicated on the label by a pictogram, which shows application material, and a text. Also, each material is assigned with a color to represent the application material.



Metal



Stainless Steel (Inox)



Cast Iron



Aluminium



Marble



Rail



# Types

T41 - Flat

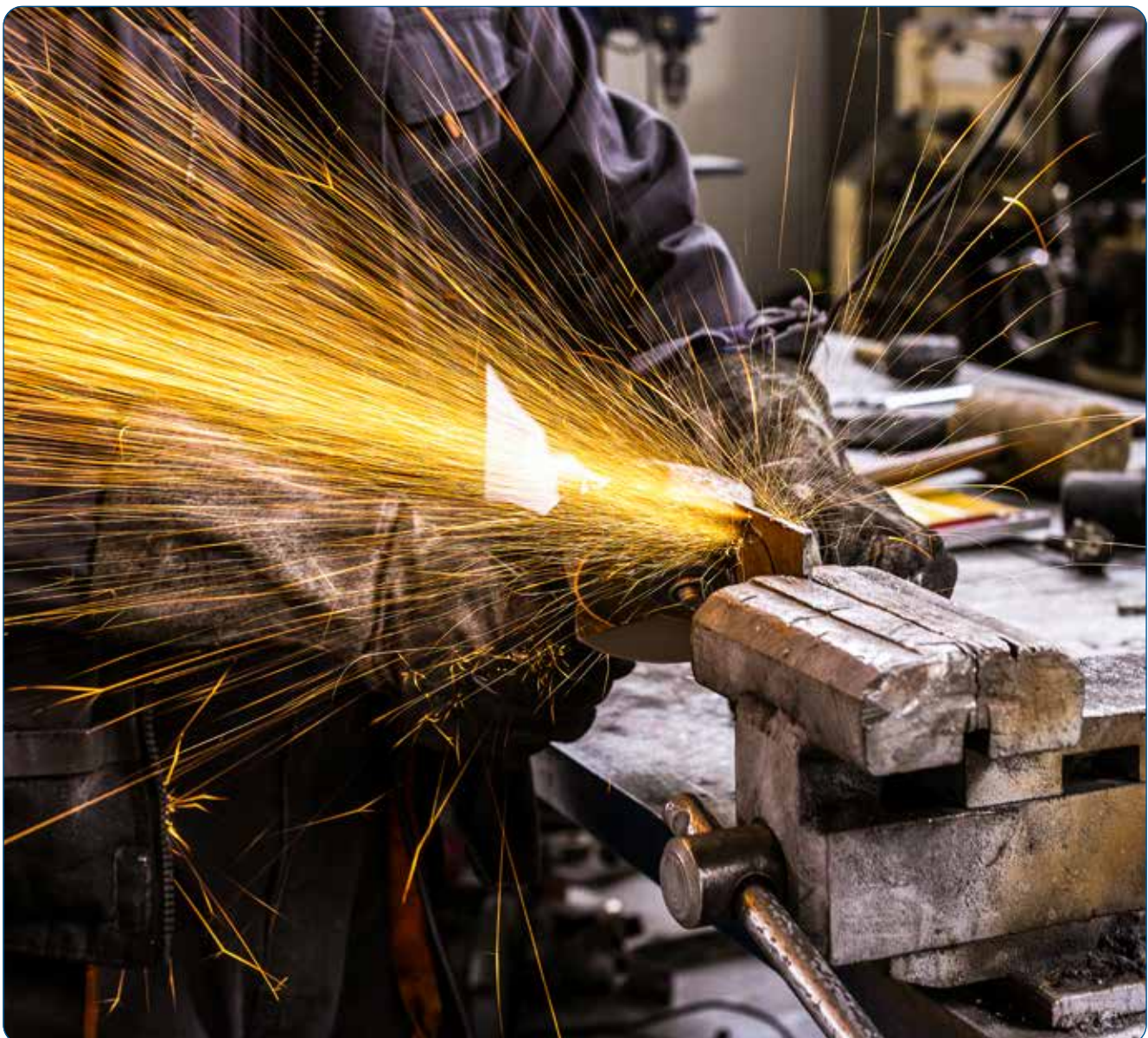


T42 - Depressed Center



## Usage Recommendations and Information

- Ensure that the product you will use is not incomplete or damaged.
- Never perform cutting tasks with a grinding disc.
- Always follow the general usage warnings and safety instructions.
- You can watch tutorial videos for safe usage at [www.karbosan.com](http://www.karbosan.com).
- Expiry date of the product is indicated on the bore and period abbreviations after the year marks are listed as **V01-V12** (January-December).
- Never use expired products.





# Thin Line Cut-Off Discs



## Metal Thin Line Cut-Off Discs

**Abrasives** : Aluminum Oxide

**Features** : Suitable for cutting all structural steels (ST-37, 42, 52), thin metal sheets, pipes and profiles. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of minimum material loss in precision cutting processes of all thin walled structural steels.

### Version

- Standard
- Plus

### Application Method

- Hand Grinder
- Fixed Cutting Bench (<3 kW)
- Fixed Cutting Bench (≥3 kW)
- Portable Gas Operated Cutter
- Fixed Power Rail Cutter

### Application Area

- Welding Burrs
- Weld Seam
- All Structural
- Low Alloy Steels
- High Alloy Steels
- Hardened Steels (>45 HRC)
- Mild Steels (<45 HRC)
- Stainless Steel (Inox)
- Cast Iron With Spherical Graphite (Nodular)
- Gray Cast Iron (Pig)
- Common Steel Cast (Containing Mn and Stainless Properties)
- Sand Finished Surfaces
- Aluminium
- Copper Brass, Bronze
- Marble
- Artificial Rocks
- Natural Rocks
- Asphalt
- Cement Products and Curbstones
- Steel Rail Profiles 60 kg/m
- Steel Rail Profiles 54 kg/m
- Steel Rail Profiles 49 kg/m

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 54 R BF80	100x1.0x16	969970	80	25	300
		115x1.0x22.23	910440		25	300
		115x1.2x22.23	911670		25	300
		125x1.0x22.23	910460		25	300
		125x1.2x22.23	912580		25	300
	A 46 R BF80	115x1.6x22.23	910450	80	25	300
		125x1.6x22.23	910470		25	300
		150x1.6x22.23	912680		25	150
		180x1.6x22.23	912338		25	150
		A 36 R BF80	180x1.9x22.23		910480	80
230x1.9x22.23	910490		25	100		








## Thin Line Cut-Off Discs























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Stainless Steel (Inox) Thin Line Cut-Off Discs

**Abrasive** : Special Aluminum Oxide

**Features** : Suitable for cutting stainless steel (Inox), 304 and 316 L grade thin metal sheets, 304 grade stainless steel pipe, flat bars. Featuring special aluminum oxide grains and a hard structure, the product offers the advantage of minimum material loss in precision cutting processes of all thin walled structural steels. The product does not contain iron (Fe) and sulfur (S).



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	AA 60 R BF80	115x0.8x22.23	912490	80	25	300
		125x0.8x22.23	912500		25	300
		100x1.0x16	912460		25	300
	AA 54 R BF80	115x1.0x22.23	910380	80	25	300
		115x1.2x22.23	911680		25	300
		125x1.0x22.23	910400		25	300
		125x1.2x22.23	912590		25	300
	AA 46 R BF80	115x1.6x22.23	910390	80	25	300
		125x1.6x22.23	910410		25	300
		150x1.6x22.23	912900		25	150
AA 36 R BF80	180x1.6x22.22	910421	80	25	150	
	180x1.9x22.23	910420		25	150	
T42	AA 60 R BF80	115x0.8x22.23	912510	80	25	300
		125x0.8x22.23	912550		25	300
	AA 36 R BF80	180x1.6x22.23	969960	80	25	150





## Thin Line Cut-Off Discs



### Aluminium Thin Line Cut-Off Discs

**Abrasive** : Aluminum Oxide

**Features** : Suitable for cutting operations on aluminium materials. Featuring aluminum oxide abrasive grains and a hard structure, the product is specially manufactured for cutting aluminium materials without clogging. Offers the advantage of convenient and fast cutting of aluminium materials.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 54 Q BF80	115x1.0x22.23	911030	80	25	200
		125x1.0x22.23	911060		25	200
	A 46 Q BF80	115x1.6x22.23	911040	80	25	200
		125x1.6x22.23	911070		25	200



#### Version

- Standard
- Plus

#### Application Method

- Hand Grinder
- Fixed Cutting Bench (<3 kW)
- Fixed Cutting Bench (≥3 kW)
- Portable Gas Operated Cutter
- Fixed Power Rail Cutter

#### Application Area

- Welding Burrs
- Weld Seam
- All Structural
- Low Alloy Steels
- High Alloy Steels
- Hardened Steels (>45 HRC)
- Mild Steels (<45 HRC)
- Stainless Steel (Inox)
- Cast Iron With Spherical Graphite (Nodular)
- Gray Cast Iron (Pig)
- Common Steel Cast (Containing Mn and Stainless Properties)
- Sand Finished Surfaces
- Aluminium**
- Copper Brass, Bronze
- Marble
- Artificial Rocks
- Natural Rocks
- Asphalt
- Cement Products and Curbstones
- Steel Rail Profiles 60 kg/m
- Steel Rail Profiles 54 kg/m
- Steel Rail Profiles 49 kg/m





# Plus Thin Line Cut-Off Discs



## Zirconium Plus Thin Line Cut-Off Discs

**Abrasive** : Special Zirconium Oxide & Aluminum Oxide  
**Features** : Suitable for cutting stainless steel (Inox), 304 and 316 L grade thin metal sheets, 304 grade stainless steel pipe and flat bars. Features special zirconium oxide and aluminum oxide abrasive grains and a hard structure. The product features a longer lifespan, advantage of faster cutting compared to its counterparts and has a specification, which minimizes the heat effect on stainless materials that have sensitive nature against heat. The product does not contain iron (Fe) and sulfur (S).

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	ZA 46 R BF80	115x1.0x22.23	908716	80	25	200
		115x1.6x22.23	908717		25	200
		125x1.0x22.23	908718		25	200
		125x1.6x22.23	908719		25	200



Version

Standard

Plus

Application Method

Hand Grinder

Fixed Cutting Bench (<3 kW)

Fixed Cutting Bench (≥3 kW)

Portable Gas Operated Cutter

Fixed Power Rail Cutter

Application Area

Welding Burrs

Weld Seam

All Structural

Low Alloy Steels

High Alloy Steels

Hardened Steels (>45 HRC)

Mild Steels (<45 HRC)

Stainless Steel (Inox)

Cast Iron With Spherical Graphite (Nodular)

Gray Cast Iron (Pig)

Common Steel Cast (Containing Mn and Stainless Properties)

Sand Finished Surfaces

Aluminium

Copper Brass, Bronze

Marble

Artificial Rocks

Natural Rocks

Asphalt

Cement Products and Curbstones

Steel Rail Profiles 60 kg/m

Steel Rail Profiles 54 kg/m

Steel Rail Profiles 49 kg/m








## Plus Thin Line Cut-Off Discs























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Cut & Cut Plus Thin Line Cut-Off Discs

**Abrasive** : Special Aluminum Oxide

**Features** : Suitable for cutting stainless steel (Inox), 304 and 316 L grade thin metal sheets, 304 grade stainless steel pipe and flat bars. Features special aluminum oxide abrasive grains and a hard structure. Thank to its the speacial aluminum oxide abrasive grains, the product, features the advantage of faster cutting and minimizes the influence of heat on stainless materials, which demonstrate heat-sensitive behavior. The product does not contain iron (Fe) and sulfur (S).



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
	CuA 542 T BF80	115x 1.0 x22.23	910500	80	25	300
		125x 1.0 x22.23	910520		25	300
T41	CuA 462 T BF80	115x 1.6 x22.23	910510	80	25	300
		125x 1.6 x22.23	910530		25	300
	CuA 362 T BF80	180x 1.9 x22.23	910820	80	25	150
		230x 1.9 x22.23	910830		25	100





# Cut-Off Discs



## Metal Cut-Off Discs

**Abrasive** : Aluminum Oxide  
**Features** : Suitable for welded production, weld seam splitting processes, ferrous metals, non-alloyed or low alloy steels, any kind of reinforcement bars, box profiles, solid iron, SAE 1040-1050 flat steels, steel construction. Featuring aluminum oxide abrasive grains and a hard structure, the product offers long lifespan and advantage of fast cutting.

Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 36 T BF80	100x 2.5 x 16	910010	80	25	200
		100x 3.0 x 16	912850		25	200
		115x 2.5 x 22.23	910020		25	200
		115x 3.0 x 22.23	910910		25	200
		125x 2.5 x 22.23	910030		25	200
		125x 3.0 x 22.23	910920		25	200
		150x 2.5 x 22.23	912780		25	150
		150x 3.0 x 22.23	911180		25	150
		180x 2.5 x 22.23	910930		25	150
		180x 3.0 x 22.23	910040		25	150
		230x 2.5 x 22.23	910940		25	100
		230x 3.0 x 22.23	910050		25	100
T42	A 36 T BF80	100x 2.5 x 16	910060	80	25	200
		100x 3.0 x 22.23	912840		25	200
		115x 2.5 x 22.23	910070		25	200
		115x 3.0 x 22.23	910950		25	200
		125x 2.5 x 22.23	910080		25	200
		125x 3.0 x 22.23	910960		25	200
		150x 3.0 x 22.23	912600		25	150
		180x 2.5 x 22.23	910970		25	150
		180x 3.0 x 22.23	910090		25	150
		230x 2.5 x 22.23	910980		25	100
		230x 3.0 x 22.23	910100		25	100



## Cut-Off Discs

## Version

Standard



Plus



## Application Method

Hand Grinder



Fixed Cutting Bench (&lt;3 kW)



Fixed Cutting Bench (≥3 kW)



Portable Gas Operated Cutter



Fixed Power Rail Cutter



## Application Area

Welding Burrs



Weld Seam



All Structural



Low Alloy Steels



High Alloy Steels



Hardened Steels (&gt;45 HRC)



Mild Steels (&lt;45 HRC)



Stainless Steel (Inox)



Cast Iron With Spherical Graphite (Nodular)



Gray Cast Iron (Pig)



Common Steel Cast (Containing Mn and Stainless Properties)



Sand Finished Surfaces



Aluminium



Copper Brass, Bronze



Marble



Artificial Rocks



Natural Rocks



Asphalt



Cement Products and Curbstones



Steel Rail Profiles 60 kg/m



Steel Rail Profiles 54 kg/m



Steel Rail Profiles 49 kg/m

Stainless Steel (Inox)  
Cut-Off Discs

Abrasive : Special Aluminum Oxide

Features : Suitable for cutting stainless steel (Inox), 304 and 316 L grade thin metal sheets, 304 grade stainless steel pipe, flat bars. Featuring special aluminum oxide grains and a hard structure, the product minimizes the influence of heat on stainless materials, which demonstrate heat-sensitive behavior. The product does not contain iron (Fe) and sulfur (S).



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	AA 24 S BF80	100x 2.5 x 16	911010	80	25	200
		115x 2.5 x 22.23	910190		25	200
		125x 2.5 x 22.23	910200		25	200
		180x 3.0 x 22.23	910210		25	150
		230x 3.0 x 22.23	910220		25	100
T42	AA 24 S BF80	100x 2.5 x 16	911020	80	25	200
		115x 2.5 x 22.23	910230		25	200
		125x 2.5 x 22.23	910240		25	200
		180x 3.0 x 22.23	910250		25	150
		230x 3.0 x 22.23	910260		25	100





## Cut-Off Discs



### Aluminium Cut-Off Discs

**Abrasive** : Aluminum Oxide  
**Features** : Suitable for cutting operations on aluminium materials. Featuring aluminum oxide abrasive grains and a hard structure, the product is specially manufactured for cutting aluminium materials without clogging. Offers the advantage of convenient and fast cutting of aluminium materials.

Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
<b>Aluminium</b>	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T42	A 36 Q BF80	115x 3.0x22.23	911050	80	25	200
		125x 3.0x22.23	911080		25	200
		180x 3.0x22.23	911100		25	150
		230x 3.0x22.23	911120		25	100










## Cut-Off Discs























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Cast Iron Cut-Off Discs

**Abrasive** : Silicon Carbide

**Features** : Suitable for cutting processes of grey cast iron, sand finished surfaces, copper, brass, bronze, marble, artificial and natural rocks, asphalt, cement products and curbstones. Featuring silicon carbide abrasive grains and a hard structure, the product offers long lifespan for cutting processes of cast and non ferrous materials.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	C 30 S BF80	115x 2.5 x 22.23	910270	80	25	200
		125x 2.5 x 22.23	910280		25	200
		180x 3.0 x 22.23	910290		25	150
		230x 3.0 x 22.23	910300		25	100
T42	C 30 S BF80	115x 2.5 x 22.23	910310	80	25	200
		125x 2.5 x 22.23	910320		25	200
		180x 3.0 x 22.23	910330		25	150
		230x 3.0 x 22.23	910340		25	100
		230x 3.5 x 22.23	912910		25	100



## Cut-Off Discs



### Marble Cut-Off Discs

**Abrasive** : Silicon Carbide  
**Features** : Suitable for cutting artificial and natural rocks such as marble, brick, concrete, tile, shingle, curbstone. Featuring silicon carbide mixture abrasive grains and a hard structure, the product offers long lifespan and advantage of convenient cutting.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	C 30 R BF80	180x 3.2 x22.23	912720	80	25	150
		230x 3.5 x22.23	912960			
T42	C 30 R BF80	180x 3.2 x22.23	912760	80	25	150
		230x 3.5 x22.23	912750			



Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	








# Plus Cut-Off Discs























## Version

- Standard 
- Plus 

## Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

## Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Industry Metal Plus Cut-Off Discs

**Abrasive** : Aluminum Oxide

**Features** : Suitable for cutting process of nodular cast iron pieces, heat sensitive metals such as Ni-hard, all steels which are low alloy and with a hardness rating higher than 25 HRC. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of fast and convenient cutting.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 30 T BF80	100x 2.5 x 16	910990	80	25	200
		115x 2.5 x 22.23	910110		25	200
		125x 2.5 x 22.23	910120		25	200
		180x 3.0 x 22.23	910130		25	150
		230x 3.0 x 22.23	910140		25	100
T42	A 30 T BF80	100x 2.5 x 16	911000	80	25	200
		115x 2.5 x 22.23	910150		25	200
		125x 2.5 x 22.23	910160		25	200
		180x 3.0 x 22.23	910170		25	150
		230x 3.0 x 22.23	910180		25	100





## Plus Cut-Off Discs



### ZA Cast Iron Plus Cut-Off Discs

- Abrasive** : Special Zirconium & Aluminum Oxide
- Features** : Suitable for cutting process of all nodular cast iron pieces, certain steel cast pieces, stainless steels and high alloy steels. Features zirconium oxide abrasive grains and a hard structure. Offers the advantage of extended lifespan since it can continue cutting without getting dull and offers higher stock removal in unit time.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	ZA 30 TX BF80	180x 3.0x22.23	911610	80	25	150
		230x 3.2x22.23	911270			
T42	ZA 30 TX BF80	180x 3.0x22.23	911210	80	25	150
		230x 3.2x22.23	911220			








Version	
Standard	
Plus	
Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	
Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

## Plus Cut-Off Discs























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

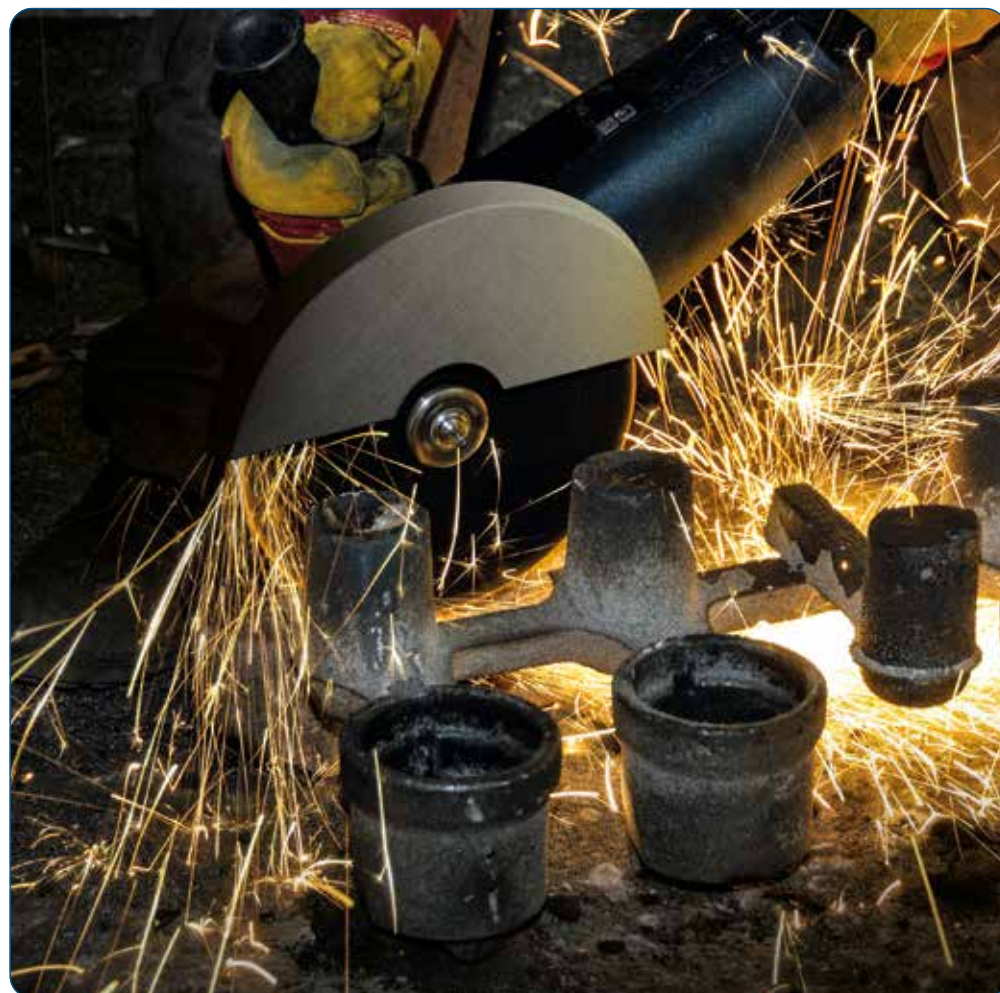
## AC Cast Iron Plus Cut-Off Discs

**Abrasive** : Special Aluminum Oxide & Silicon Carbide

**Features** : Suitable for cutting process of gray cast iron, nodular casting, high alloy steels, common steel casting and sand finished surfaces. Featuring special aluminum oxide and silicon carbide mixture abrasive grains and a hard structure, the product offers the advantage of fast and convenient cutting.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	AC 36 SX BF80	180x 3.0 x22.23	911510	80	25	150
		230x 3.0 x22.23	911520		25	100
		230x 3.5 x22.23	911530		25	100
		230x 3.8 x22.23	912270		25	100
T42	AC 36 SX BF80	180x 3.0 x22.23	911560	80	25	150
		230x 3.0 x22.23	911570		25	100
		230x 3.5 x22.23	911640		25	100
T27	AC 36 SX BF80	230x 3.8 x22.23	912280	80	25	100
T27	AC 36 SX BF80	230x 4.2 x22.23	913603	80	25	100





# Stationary Machine Cut-Off Discs



## Metal Stationary Machine Cut-Off Discs

**Abrasive** : Aluminum Oxide  
**Features** : They are suitable for cutting processes of structural steels (St37-42), rods and profiles. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of fast cutting.

Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	

### Products suitable for use with machinery with power rating less than 3 kW.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 36/46 P BF80	300x 2.8 x25.4	911440	80	25	50
		350x 2.8 x25.4	954635		10	-
	A 30/36 P BF80	350x 3.0 x25.4	954637	80	10	-
		400x 3.5 x25.4	912290		10	-
		400x 3.5 x32	968038		10	-

### Products suitable for use with machinery with power rating equal to or higher than 3 kW.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 30/36 P BF80	300x 3.0 x22.23	911710	80	25	50
		300x 3.5 x22.23	911340		25	50
		300x 3.0 x25.4	910840		25	50
		300x 3.5 x25.4	954631		25	50
		300x 3.0 x30	910850		25	50
		300x 3.0 x32	911760		25	50
		300x 3.5 x32	954632		25	50
		350x 3.5 x22.23	911790		10	-
		350x 3.5 x25.4	910860		10	-
		350x 3.5 x30	910870		10	-
		350x 3.5 x32	911800		10	-
		400x 4.0 x25.4	910880		10	-
		400x 4.0 x32	911960		10	-
		400x 4.0 x40	910890		10	-
		500x 5.0 x25.4	912690		5*	-
		500x 5.0 x40	911290		5*	-
		500x 5.0 x50	910900		5*	-
A 30/36 S BF80	300x 3.5 x25.4	911350	80	25	50	
	300x 3.5 x22.23	911930		25	50	
A 36/46 P BF80**	300x 3.5 x25.4	911460	80	25	50	
	350x 3.5 x25.4	911470		10	-	
	400x 4.0 x25.4	911480		10	-	

Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

\*The product is shrink-packed.  
 \*\*Wheels are internal reinforced.








## Stationary Machine Cut-Off Discs























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

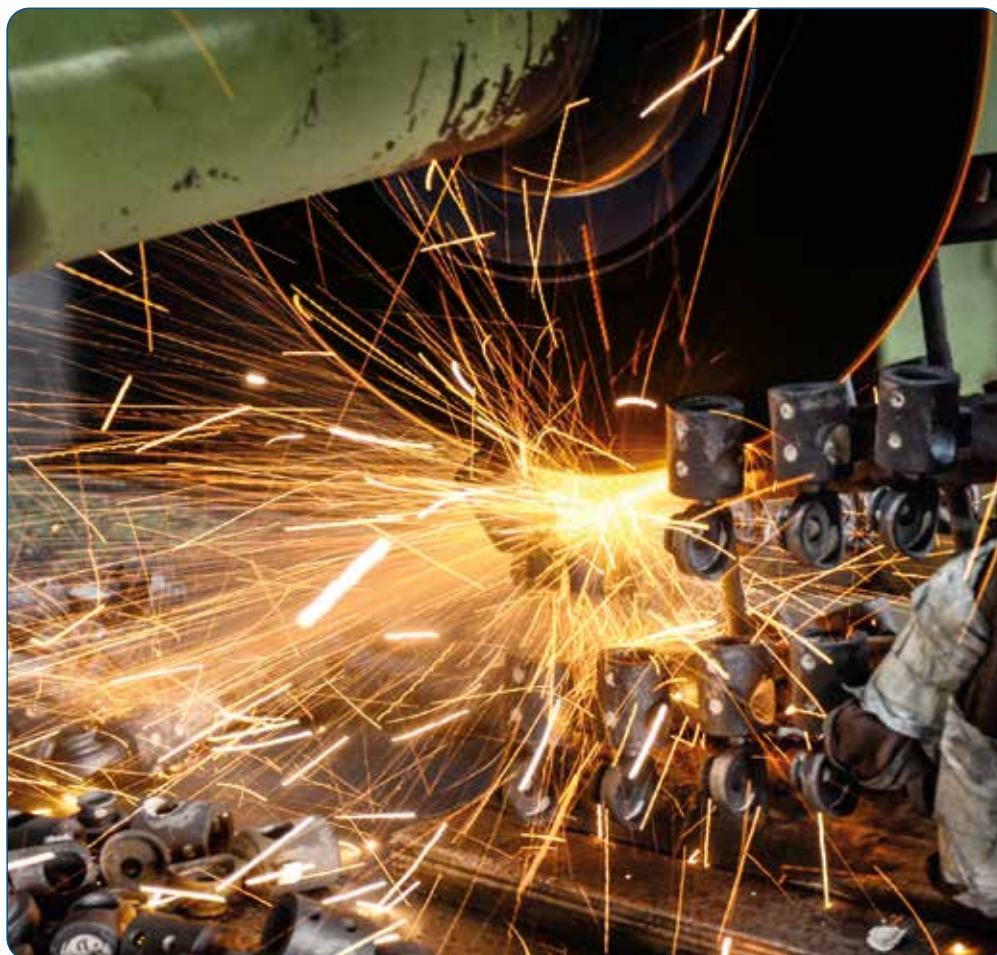
## Cast Iron Stationary Machine Cut-Off Discs

**Abrasive** : Silicon Carbide

**Features** : Suitable for cutting process of spherical graphite cast iron (nodular casting), grey cast iron, aluminum, copper, brass, bronze etc. non ferrous metals. Featuring silicon carbide abrasive grains and a hard structure, the product offers long lifespan for cutting processes of cast and nonferrous materials.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	C 24 S BF80	300x 3.0 x25.4	911900	80	25	-
		300x 3.0 x30	911910		25	-
		300x 3.5 x20	911390		25	-
		300x 3.5 x22.23	911400		25	-
		300x 3.5 x25.4	911410		25	-
		300x 3.5 x32	911780		25	-
		350x 3.5 x25.4	912740		10	-
		350x 3.5 x30	911920		10	-
		350x 3.5 x32	912000		10	-
		400x 4.0 x40	911740		10	-



# Petrol Saw Cut-Off Discs



## Cast Iron Petrol Saw Cut-Off Discs

**Abrasive** : Silicon Carbide  
**Features** : Featuring silicon carbide abrasive grains and a hard structure, the product offers long lifespan for cutting processes of asphalt, cement and curbstones.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	C 24 S BF100	350x 4.0x20	911420	100	10	-
		350x 4.0x25.4	911630		10	-



Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	








# Rail Cut-Off Discs








## Version

- Standard 
- Plus 

## Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

## Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

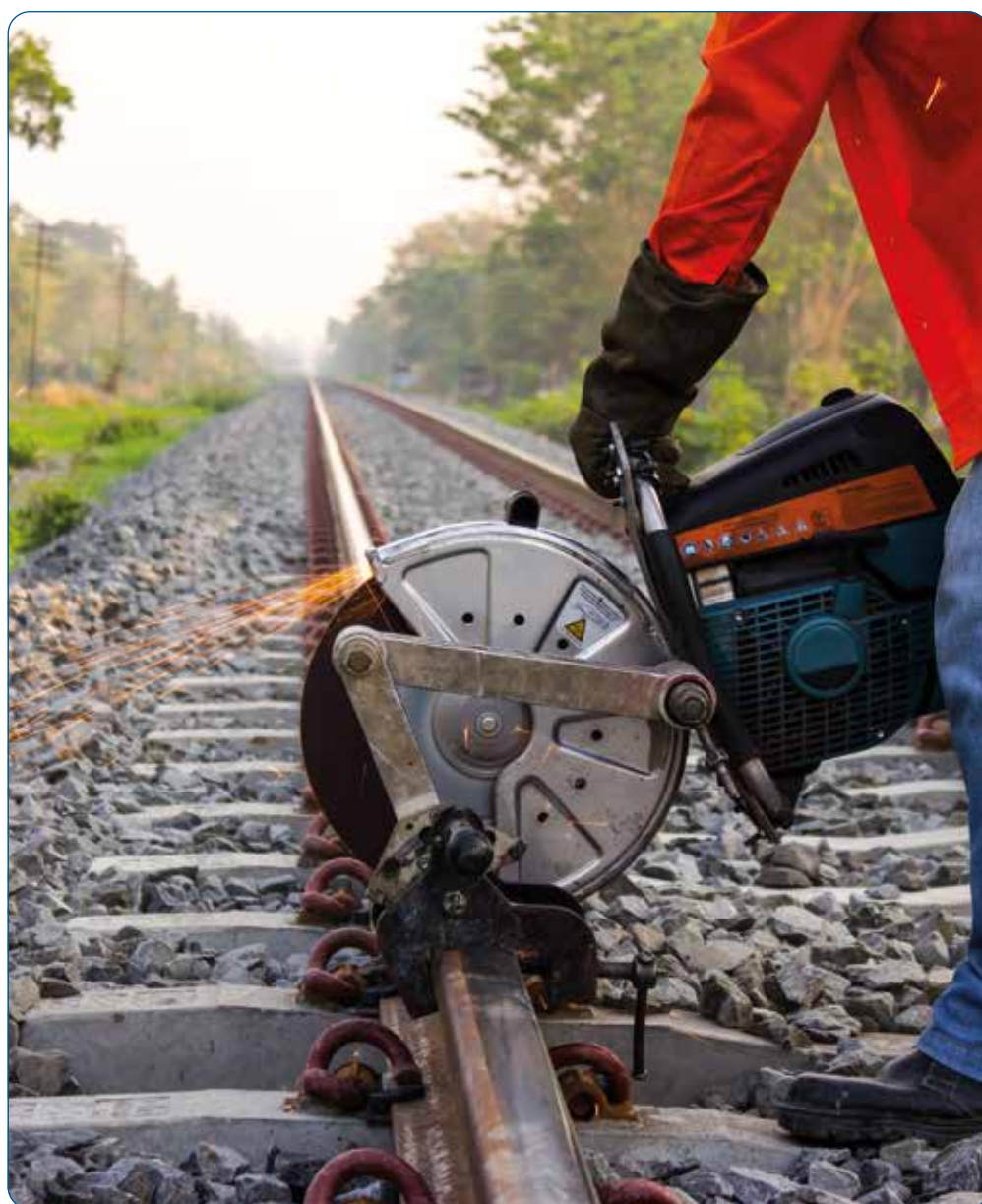
## Metal Rail Cut-Off Discs

**Abrasive** : Aluminum Oxide

**Features** : Suitable for all rail cutting processes. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of cutting without run-out and vibration.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	A 36 R BF100	350x 4.0 x20	911360	100	10	-
		350x 4.0 x22.23	911370		10	-
		350x 4.0 x25.4	911380		10	-





# Plus Rail Cut-Off Discs



## Zirconia Plus Rail Cut-Off Discs

**Abrasive** : Special Zirconium & Aluminum Oxide  
**Features** : Suitable for all rail cutting processes. Featuring special zirconium and aluminum oxide abrasive grains and a hard structure, the product offers the advantages of cutting without run-out and vibration, as well as high performance and fast cutting.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
T41	ZA 30 R BF100	300x 3.5 x22.23	911300	100	25	50
		350x 4.0 x22.23	911310		10	-
		350x 4.0 x25.4	911320		10	-
		400x 4.0 x22.23	906734		10	-
		400x 4.0 x25.4	912970		10	-
		400x 4.0 x40	906735		10	-



Version	
Standard	
Plus	

Application Method	
Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	






Application Area	
Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

# Cut-Off & Grinding Discs























## Version

- Standard 
- Plus 

## Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

## Application Area


- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Metal Cut-Off & Grinding Discs

**Abrasive** : Aluminum Oxide

**Features** : Suitable for cutting and grinding processes of welding burrs, weld seams, all structural steels, low and high-alloy steels, hardened steels and common steel cast materials. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of using a single product for both cutting and grinding operations.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
	A 24/36 ST BF80	115x 4.0x22.23	911130	80	20	160
		125x 4.0x22.23	911140		20	160
		180x 4.0x22.23	911150		20	120
		230x 4.0x22.23	911160		20	80





# Grinding Discs







## Label Information

**Brand**

**Specification**

**Dimension** 115 x 6.4 x 22.23  
4 1/2" x 1/4" x 7/8"

**Maximum Revolution and Maximum Operation Speed Information** MAX. 13.300 RPM  
80 m/s

**Safety and Personal Protective Equipment Pictograms**

**Application Area**

- STEEL
- ACIER
- STAHL
- ACERO
- METAL

**Material Pictogram**

**Type Pictogram**

**Standard Compliance Mark** TS EN 12413

**OSA Membership Logo**

**Article, Barcode, Manufacture Location** ART NO.: 910550  
Made in Turkey

## Specifications Definition

A	24	RS	BF	80
<b>Abrasive Type</b>	<b>Abrasive Grain Size</b>	<b>Grade Hardness</b>	<b>Bond Type</b>	<b>Peripheral Speed (m/s)</b>
<b>A</b> Aluminum Oxide <b>AA</b> Special Aluminum Oxide <b>C</b> Silicon Carbide <b>ZA</b> Zirconium	<b>Coarse</b> 8, 10, 12, 14, 16, 20, 24 <b>Medium</b> 30, 36, 46, 54, 60	<b>Medium</b> L, M, N, O <b>Hard</b> P, Q, R, S, <b>Very Hard</b> T, U, V, W,	<b>BF</b> Synthetic Resine (Fiber Reinforced)	Figure indicating the revolution speed of the product in meter / second.

## Material Pictograms and Colors

Karbosan bonded abrasives are classified according to applications types for full performance and safe use. This classification is shown with the pictogram indicating the application material and with text on the label. Also, each material is assigned with a color to represent the application material.



Metal



Stainless Steel (Inox)



Cast Iron

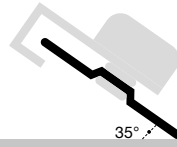


Aluminium



## Type

T42 - Depressed Grinding



## Usage Recommendations and Information

- Ensure that the product you will use is not incomplete or damaged.
- Never perform grinding tasks with cut-off discs.
- Always follow the general usage warnings and safety instructions.
- You can watch safe use video tutorials at [www.karbosan.com](http://www.karbosan.com).
- Expiry date of the product is indicated on the bore and period abbreviations after the year marks are listed as **V01-V12** (January-December).
- Never use expired products.



# Grinding Discs



## Metal Grinding Discs

**Abrasive** : Aluminum Oxide  
**Features** : Suitable for grinding process of welding burrs and seams, all structural steels, high alloy steels, hardened steels, mild steels, stainless steels and common steel cast materials. Featuring aluminum oxide abrasive grains and a hard structure, the product offers long lifespan and advantage of quick cutting.

### Version

Standard	
Plus	

### Application Method

Hand Grinder	
Fixed Cutting Bench (<3 kW)	
Fixed Cutting Bench (≥3 kW)	
Portable Gas Operated Cutter	
Fixed Power Rail Cutter	

### Application Area

Welding Burrs	
Weld Seam	
All Structural	
Low Alloy Steels	
High Alloy Steels	
Hardened Steels (>45 HRC)	
Mild Steels (<45 HRC)	
Stainless Steel (Inox)	
Cast Iron With Spherical Graphite (Nodular)	
Gray Cast Iron (Pig)	
Common Steel Cast (Containing Mn and Stainless Properties)	
Sand Finished Surfaces	
Aluminium	
Copper, Brass, Bronze	
Marble	
Artificial Rocks	
Natural Rocks	
Asphalt	
Cement Products and Curbstones	
Steel Rail Profiles 60 kg/m	
Steel Rail Profiles 54 kg/m	
Steel Rail Profiles 49 kg/m	

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
	A 24 RS BF80	100x 6.4 x 16	910540	80	10	80
		115x 6.4 x 22.23	910550		10	80
		125x 6.4 x 22.23	910560		10	80
		150x 6.4 x 22.23	911830		10	60
		180x 6.4 x 22.23	910570		10	60
		180x 8.0 x 22.23	910580		10	60
		180x 10 x 22.23	910590		10	40
		230x 6.4 x 22.23	910600		10	40
		230x 8.0 x 22.23	910610		10	40
		230x 10 x 22.23	910620		10	40





## Grinding Discs

## Version

Standard



Plus



## Application Method

Hand Grinder



Fixed Cutting Bench (&lt;3 kW)



Fixed Cutting Bench (≥3 kW)



Portable Gas Operated Cutter



Fixed Power Rail Cutter



## Application Area

Welding Burrs



Weld Seam



All Structural



Low Alloy Steels



High Alloy Steels



Hardened Steels (&gt;45 HRC)



Mild Steels (&lt;45 HRC)



Stainless Steel (Inox)



Cast Iron With Spherical Graphite (Nodular)



Gray Cast Iron (Pig)



Common Steel Cast (Containing Mn and Stainless Properties)



Sand Finished Surfaces



Aluminium



Copper, Brass, Bronze



Marble



Artificial Rocks



Natural Rocks



Asphalt



Cement Products and Curbstones



Steel Rail Profiles 60 kg/m



Steel Rail Profiles 54 kg/m



Steel Rail Profiles 49 kg/m

Stainless Steel (Inox)  
Grinding Discs

Abrasive : Special Aluminum Oxide

Features : Suitable for grinding process of high alloy steels, hardened steels, stainless steels and common steel cast materials. Featuring special aluminum oxide abrasive grains and a hard structure, the product is ideal for grinding stainless steel materials. The product does not contain iron (Fe) and sulfur (S).



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
	AA 24 P BF80	100x 6.4 x 16	912710	80	10	80
		115x 6.4 x 22.23	910680		10	80
		125x 6.4 x 22.23	910690		10	80
		180x 6.4 x 22.23	910700		10	60
		180x 8.0 x 22.23	910710		10	60
		230x 6.4 x 22.23	910720		10	40






## Grinding Discs








### Cast Iron Grinding Discs

**Abrasive** : Silicon Carbide  
**Features** : Suitable for grinding process of spherical graphite cast iron, grey cast iron, sand finished surfaces, copper, brass, marble, artificial and natural rocks. Featuring silicon carbide abrasive grains and a hard structure, the product offers long lifespan and advantage of convenient material removal.























#### Version


- Standard 
- Plus 

#### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

#### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper, Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
 T27	C 24 S BF80	100x 6.4 x 16	911700	80	10	80
		115x 6.4 x 22.23	910730		10	80
		125x 6.4 x 22.23	910740		10	80
		180x 6.4 x 22.23	910750		10	60
		180x 8.0 x 22.23	910760		10	60
		180x 10 x 22.23	911730		10	-
		230x 6.4 x 22.23	910770		10	40
		230x 8.0 x 22.23	911750		10	40



## Grinding Discs

## Version

Standard



Plus



## Application Method

Hand Grinder



Fixed Cutting Bench (&lt;3 kW)



Fixed Cutting Bench (≥3 kW)



Portable Gas Operated Cutter



Fixed Power Rail Cutter



## Application Area

Welding Burrs



Weld Seam



All Structural



Low Alloy Steels



High Alloy Steels



Hardened Steels (&gt;45 HRC)



Mild Steels (&lt;45 HRC)



Stainless Steel (Inox)



Cast Iron With Spherical Graphite (Nodular)



Gray Cast Iron (Pig)



Common Steel Cast (Containing Mn and Stainless Properties)



Sand Finished Surfaces

**Aluminium**

Copper, Brass, Bronze



Marble



Artificial Rocks



Natural Rocks



Asphalt



Cement Products and Curbstones



Steel Rail Profiles 60 kg/m



Steel Rail Profiles 54 kg/m



Steel Rail Profiles 49 kg/m

**Aluminium  
Grinding Discs**

Abrasive : Aluminum Oxide

Features : Suitable for grinding operations on aluminium, copper, brass and bronze materials. Featuring aluminum oxide abrasive grains and a hard structure, the product offers the advantage of convenient material removal without causing clogging.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
	A 24 N BF80	115x6.4x22.23	911230	80	10	80
		125x6.4x22.23	911240		10	80
		180x6.4x22.23	911250		10	60
		180x8.0x22.23	911840		10	60
		230x6.4x22.23	911260		10	40






# Plus Grinding Discs




## Metal Plus Grinding Discs

**Abrasive** : Aluminum Oxide  
**Features** : Suitable for grinding process of welding burrs and seams, all structural steels, high alloy steels, hardened steels, mild steels, stainless steels and common steel cast materials. Featuring aluminum oxide abrasive grains and a hard structure, the product can perform more aggressive grinding than standard products and ideal for grinding operations on heat sensitive materials.






Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
 T27	A 30 Q BF80	115x 6.4 x 22.23	910630	80	10	80
		125x 6.4 x 22.23	910640		10	80
		180x 6.4 x 22.23	910650		10	60
		180x 8.0 x 22.23	910660		10	60
		230x 6.4 x 22.23	910670		10	40
		230x 8.0 x 22.23	911430		10	40

























### Version

- Standard 
- Plus 

### Application Method

- Hand Grinder 
- Fixed Cutting Bench (<3 kW) 
- Fixed Cutting Bench (≥3 kW) 
- Portable Gas Operated Cutter 
- Fixed Power Rail Cutter 

### Application Area

- Welding Burrs 
- Weld Seam 
- All Structural 
- Low Alloy Steels 
- High Alloy Steels 
- Hardened Steels (>45 HRC) 
- Mild Steels (<45 HRC) 
- Stainless Steel (Inox) 
- Cast Iron With Spherical Graphite (Nodular) 
- Gray Cast Iron (Pig) 
- Common Steel Cast (Containing Mn and Stainless Properties) 
- Sand Finished Surfaces 
- Aluminium 
- Copper, Brass, Bronze 
- Marble 
- Artificial Rocks 
- Natural Rocks 
- Asphalt 
- Cement Products and Curbstones 
- Steel Rail Profiles 60 kg/m 
- Steel Rail Profiles 54 kg/m 
- Steel Rail Profiles 49 kg/m 

## Plus Grinding Discs

## Version

Standard



Plus



## Application Method

Hand Grinder



Fixed Cutting Bench (&lt;3 kW)



Fixed Cutting Bench (≥3 kW)



Portable Gas Operated Cutter



Fixed Power Rail Cutter



## Application Area

Welding Burrs



Weld Seam



All Structural



Low Alloy Steels



High Alloy Steels



Hardened Steels (&gt;45 HRC)



Mild Steels (&lt;45 HRC)



Stainless Steel (Inox)



Cast Iron With Spherical Graphite (Nodular)



Gray Cast Iron (Pig)



Common Steel Cast (Containing Mn and Stainless Properties)



Sand Finished Surfaces



Aluminium



Copper, Brass, Bronze



Marble



Artificial Rocks



Natural Rocks



Asphalt



Cement Products and Curbstones



Steel Rail Profiles 60 kg/m



Steel Rail Profiles 54 kg/m



Steel Rail Profiles 49 kg/m

ZA Cast Iron  
Plus Grinding Discs

Abrasive : Zirconia

Features : Suitable for grinding process of welding burrs and seams, high alloy steels, mild steels, stainless steels, spherical graphite cast iron, grey cast iron, common steel cast and sand finished surfaces. Featuring zirconia abrasive grains and a hard structure, the product offers the advantage of more aggressive material removal than standard products.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Box	M. Box
		115x7.0x22.23	910780		10	-
		125x7.0x22.23	910790		10	-
	ZA 24 R BF80	180x7.0x22.23	988516	80	10	60
		180x8.0x22.23	911170		10	60
		230x7.0x22.23	910810		10	40





# Grinding Wheels








## Conical Cup Wheels




Abrasive : Silicon Carbide  
 Features : Suitable for grinding process of marble, mosaic, concrete and similar artificial and natural rocks. It is also suitable for coarse burr removal processed of metals.

Type	Specification	Dimension (mm)	Grain	Article	Peripheral Speed (m/s)	Shrink
 T11	C 16 L5 B	100x 50 xM14	16	914200	45	4
		125x 50 xM14		914210		4
	C 24 L5 B	100x 50 xM14	24	914220	45	4
		125x 50 xM14		914230		4

## Flat Cup Wheels




Abrasive : Silicon Carbide  
 Features : Suitable for grinding process of marble, mosaic, paladiana, concrete and similar artificial and natural rocks. It is also suitable for coarse burr removal processed of metals.

Type	Specification	Dimension (mm)	Grain	Article	Peripheral Speed (m/s)	Shrink
 T6	C 16 L5 B	100x 50 xM14	16	914300	45	4
		125x 50 xM14		914310		4
	C 24 L5 B	100x 50 xM14	24	914320	45	4
		125x 50 xM14		914330		4

## Marble & Mosaic Cup Wheels

- Abrasive : Silicon Carbide
- Features : Suitable for grinding process of marble, mosaic, paladiana, concrete and similar artificial and natural rocks. It is also suitable for coarse burr removal processed of metals.




Type	Specification	Dimension (mm)	Grain	Article	Peripheral Speed (m/s)	Shrink
 T1	C 16 L5 B	110x 58 x22.23	16	914400	45	4
	C 24 L5 B	110x 58 x22.23	24	914410	45	4

## Aluminum Oxide Recessed Grinding Discs

- Abrasive : Aluminum Oxide
- Features : Suitable for deburring process of clevis, clevis recess, very fine and sensitive areas.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
 T1	NK 80 Q4 BA	150x 2.0 x20	912300	45	20
		175x 2.0 x20	912310		20
		190x 2.0 x28	912320		10

# Vitrified Bonded Products





- Grinding Wheels
- Saw Sharpening
- Tool Sharpening



# Grinding Wheels










# Aluminum Oxide Grinding Wheels



**Abrasive** : Aluminum Oxide  
**Features** : Suitable for sharpening process of lathe spindles on bench type surface grinding machines and also for all types of steel and iron grinding. It provides the advantages of general purpose use and offers maximum 35 m/s operating speed.


Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	46	60	Shrink
	75 x 13 x 10		•	913010	913020	913030	5
	100 x 13 x 10		•	913040	913050	913060	5
	100 x 16 x 20		•	913070	913080	913090	5
	125 x 16 x 16		•	914790	914800	914810	5
	125 x 20 x 20		914820	914830	914840	914850	5
	150 x 20 x 20		914860	914870	914880	914890	5
	150 x 25 x 20		914900	914910	914920	914930	5
	175 x 20 x 20		914940	914950	914960	914970	5
	175 x 25 x 20		914980	914990	920000	920010	5
	200 x 20 x 20		920020	920030	920040	920050	5
	200 x 25 x 20		920060	920070	920080	920090	5
 T1	200 x 30 x 20	35	920100	920110	920120	•	4
	200 x 32 x 20		920130	920140	920150	•	4
	250 x 25 x 25		920180	920190	920200	•	5
	250 x 30 x 25		920210	920220	920230	•	4
	250 x 32 x 25		920240	920250	920260	•	4
	250 x 40 x 25		920270	920280	920290	•	2
	300 x 30 x 30		920300	920310	920320	•	2
	300 x 32 x 30		920330	920340	920350	•	2
	300 x 40 x 30		920360	920370	920380	•	2
	350 x 40 x 40		920390	920400	920410	•	2
	400 x 40 x 40		920420	920430	920440	•	1



# SCG Diamond Sharpening Wheels

- Abrasive : Silicon Carbide (Green)
- Features : Suitable for sharpening process of carbide tools on bench type standard grinding machines. The product has an extended lifespan and does not cause burning and offers maximum 35 m/s operating speed.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
 T1	C 80 J5 V	125x 20 x20	920450	35	5
		125x 25 x20	920460		5
		150x 20 x20	920470		5
		150x 25 x20	920480		5
		175x 20 x20	920490		5
		175x 25 x20	920500		5
		200x 20 x20	920510		5
		200x 25 x20	920520		5
		200x 32 x20	920530		5
		250x 25 x25	920540		5
		250x 32 x25	920550		3
		300x 30 x30	920560		2
		300x 32 x30	920570		2





# Steel Grinding Wheels



Abrasive : Aluminum Oxide (EKR)  
 Features : Available in 36, 46 and 60 grit size, it is used for cylindrical and surface grinding in addition to general purpose usage. It is mainly used for grinding tool steel and unhardened steels. High performance and long lasting. Maximum peripheral speed 35 m/s.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink		
EKR 36 K6V		150x 20 x20	914450	35	5		
		175x 20 x20	914480		5		
		250x 25 x76.2	914490		5		
		250x 30 x76.2	914520		3		
		250x 32 x76.2	914770		3		
		250x 40 x76.2	914560		2		
		300x 40 x127	914590		2		
		350x 40 x127	914640		2		
		350x 50 x127	914670		1		
		400x 40 x127	914700		1		
		400x 50 x127	908902		1		
	EKR 46 K6V		150x 20 x20		914460	35	5
			175x 20 x20		914730		5
		200x 20 x20	914750	5			
		250x 25 x76.2	914500	5			
		250x 30 x76.2	914530	3			
		250x 32 x76.2	914780	3			
		250x 40 x76.2	914570	2			
		300x 40 x76.2	914620	2			
		300x 40 x127	914600	2			
		350x 40 x127	914650	2			
		350x 50 x127	914680	1			
		400x 35 x127	916000	1			
		400x 40 x127	914710	1			
	400x 50 x127	903804	1				
EKR 60 K6V		150x 20 x20	914470	35	5		
		175x 20 x20	914740		5		
		200x 20 x20	914760		5		
		250x 25 x76.2	914510		5		
		250x 30 x76.2	914540		3		
		250x 32 x76.2	914550		3		
		250x 40 x76.2	914580		2		
		300x 40 x76.2	914630		2		
		300x 40 x127	914610		2		
		350x 40 x127	914660		2		
		350x 50 x127	914690		1		
		400x 40 x127	914720		1		
		400x 50 x127	903805		1		







## Glass Grinding Wheels





Abrasive : Silicon Carbide  
 Features : Suitable for rodage in glass industry.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
 T1	C100 L5 V	300x 30 x30	914370	80	1
		350x 35 x30	914380		1

# Crystal Grinding Wheels

Abrasive : Aluminum Oxide  
 Features : Suitable for surface cleaning processes of crystal and glass pieces.

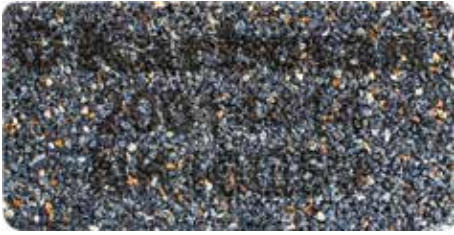


Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
 T1	NK 80 M6 V	350x50x40	914430	35	1
		400x50x40	914390		1
 T5	NK 80 M6 V	350x50x40 - 180 x 30	914440	35	1
		400x50x40 - 180 x 30	914420		1



# Aluminum Oxide Mosaic Scrubbing Stones

Abrasive : Aluminum Oxide  
 Features : Suitable for grinding of mosaic, floor tiling and similar materials.



Type	Specification	Dimension (mm)	Article	Shrink	Type	Specification	Dimension (mm)	Article	Shrink
T5410	NK 16 Q5 V	100x 50 x25	•	20	T5410	NK 36 P5 V	100x 50 x25	920620	20
		100x 50 x50	920640	10			100x 50 x50	920660	10
		100x100x50	•	5			100x 100x50	920590	5
		200x100x50	•	3			200x100x50	920690	3
	NK 24 Q5 V	100x 50 x25	920610	20		NK 46 O5 V	100x 50 x25	920630	20
		100x 50 x50	920650	10			100x 50 x50	920670	10
		100x100x50	920580	5			100x 100x50	920600	5
		200x100x50	920680	3					



# Scythe Sharpener

Abrasive : Aluminum Oxide  
Features : Suitable for manual sharpening processes of scythes.



Type	Specification	Dimension (mm)	Article	Shrink
T9010	HK 150 P5 V	222x 13 x35	913680	1





# Saw Sharpening







# Aluminum Oxide Saw Sharpening



**Abrasive** : Aluminum Oxide  
**Features** : Long lasting, sharpening of round saws, band saws and other saw alternatives, Edge form C, Maximum operating speed 35 m/s. Saw blade sharpener wheels are widely used in saw production and wood products industry to shape miscellaneous saws and to sharpen saw blades. In addition to the use of flat wheels, various edges forms are also possible. It has a wide use as edge form C.


Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink			
T1	A60 N5 V	150x6.0x20	913960	35	10			
		150x8.0x20	913980		10			
		150x 10 x20	913940		10			
		175x8.0x20	914190		10			
		175x 10 x20	914160		10			
		200x8.0x20	914290		10			
		200x 10 x20	914260		10			
		250x 10 x25	914360		10			
		A80 N5 V			150x6.0x25	913970	35	10
					150x8.0x20	913990		10
150x 10 x20	913950			10				
175x8.0x20	914240			10				
175x 10 x20	914170			10				
200x8.0x20	914340			10				
200x 10 x20	914270			10				
	250x 10 x25	•	10					



## EKR Saw Sharpening

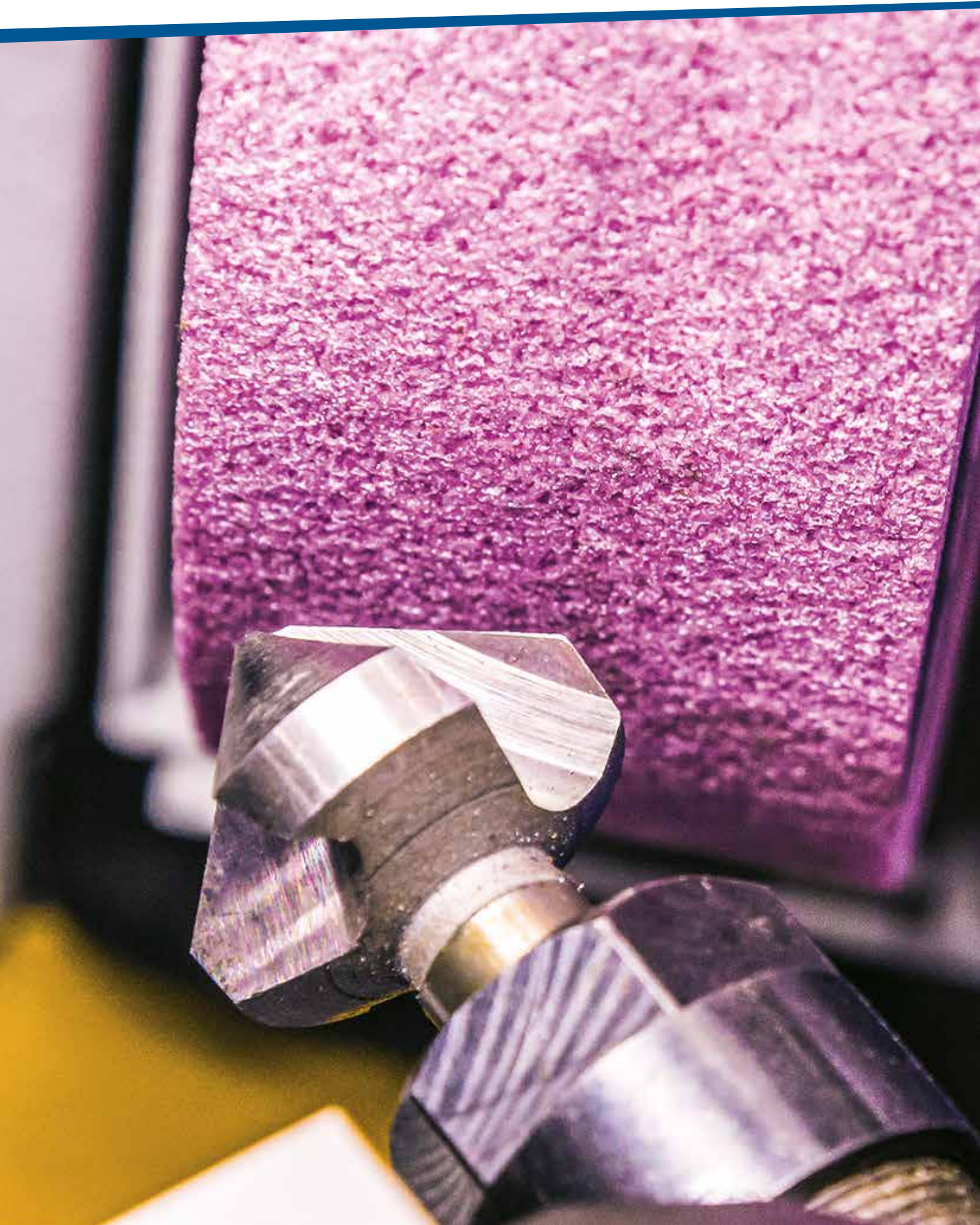
- Abrasive : Aluminum Oxide (EKR)
- Features : Sharpening of round saws, band saws and other saw alternatives, long lasting without causing material burn, convenient cutting, maximum operating speed 35 m/s. Saw blade sharpener wheels are widely used in saw production and wood products industry to shape miscellaneous saws and to sharpen saw blades. In addition to the use of flat wheels, various edges forms are also possible. It has a wide use as edge form C.



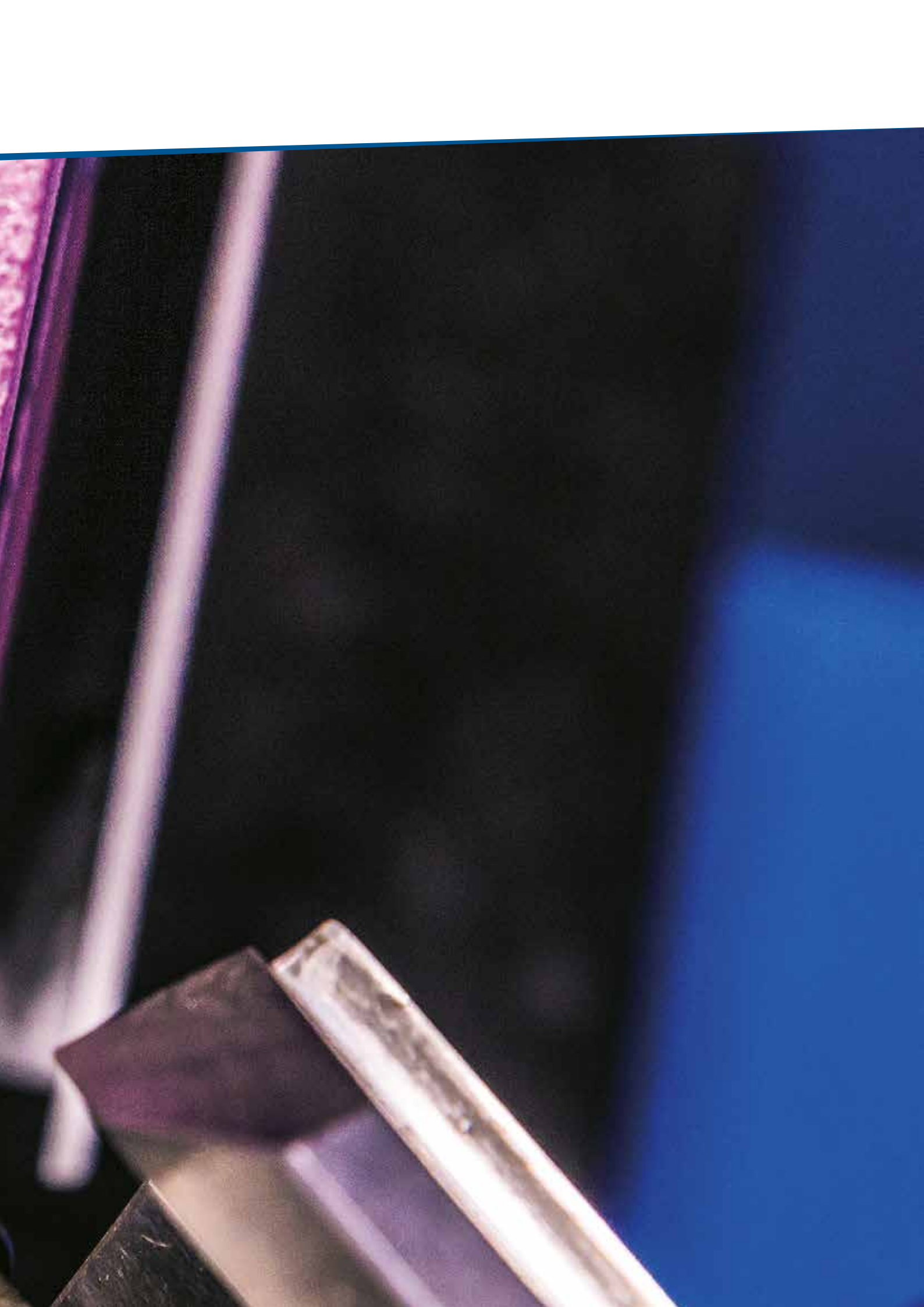
Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
 T1	EKR60 K6V	175x 8.0 x20	914180	35	10
		175x 10 x20	914150		10
		200x 8.0 x20	914280		10
		200x 10 x20	914250		10
		250x 10 x25	914350		10



# Tool Sharpening







# Form D Cup Wheels



Abrasive : Aluminum Oxide (EKR)  
 Features : Suitable for sharpening milling cutting bits, guides and similar cutting tools. It has a maximum 35 m/s operating speed.

Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
EKR 46 K6 V		Form D - 50 (50x32x13)	978434	35	5
		Form D - 75 (75x40x20)	978435		5
		Form D - 100 (100x50x20)	978436		5
		Form D - 125 (125x63x20)	978437		5
		Form D - 150 (150x80x20)	978438		4
EKR 60 K6 V		Form D - 50 (50x32x13)	914000	35	5
		Form D - 75 (75x40x20)	914010		5
		Form D - 100 (100x50x20)	914020		5
		Form D - 125 (125x63x20)	914030		5
		Form D - 150 (150x80x20)	914040		4
EKW 46 K6 V		Form D - 50 (50x32x13)	978454	35	5
		Form D - 75 (75x40x20)	978455		5
		Form D - 100 (100x50x20)	978456		5
		Form D - 125 (125x63x20)	978457		5
EKW 60 K6 V		Form D - 50 (50x32x13)	978444	35	5
		Form D - 75 (75x40x20)	978445		5
		Form D - 100 (100x50x20)	978446		5
		Form D - 125 (125x63x20)	978447		5
		Form D - 150 (150x80x20)	978448		4





## Form E Conical Cup Wheels

- Abrasive : Aluminum Oxide (EKR)  
 Features : Suitable for sharpening milling cutting bits, guides and similar cutting tools.  
 It has a maximum 35 m/s operating speed.



Type	Specification	Dimension (mm)	Article	Peripheral Speed (m/s)	Shrink
	EKR 46 K6 V	Form E - 50 (50x32x13)	978439	35	5
		Form E - 75 (75x40x20)	978440		5
		Form E - 100 (100x50x20)	978441		5
		Form E - 125 (125x63x20)	978442		5
		Form E - 150 (150x80x20)	978443		4
	EKR 60 K6 V	Form E - 50 (50x32x13)	914100	35	5
		Form E - 75 (75x40x20)	914110		5
		Form E - 100 (100x50x20)	914120		5
		Form E - 125 (125x63x20)	914130		5
		Form E - 150 (150x80x20)	914140		4
	EKW 46 K6 V	Form E - 50 (50x32x13)	978459	35	5
		Form E - 75 (75x40x20)	978460		5
		Form E - 100 (100x50x20)	978461		5
		Form E - 125 (125x63x20)	978462		5
	EKW 60 K6 V	Form E - 50 (50x32x13)	978449	35	5
		Form E - 75 (75x40x20)	978450		5
		Form E - 100 (100x50x20)	978451		5
		Form E - 125 (125x63x20)	978452		5
		Form E - 150 (150x80x20)	978453		4



T11

# Diamond Blades





- Segmented Diamond Blades

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- Thin Line Segmented Diamond Blades

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- Turbo Diamond Blades

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- Continuous Rim Diamond Blades

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- Wave Turbo Diamond Blades

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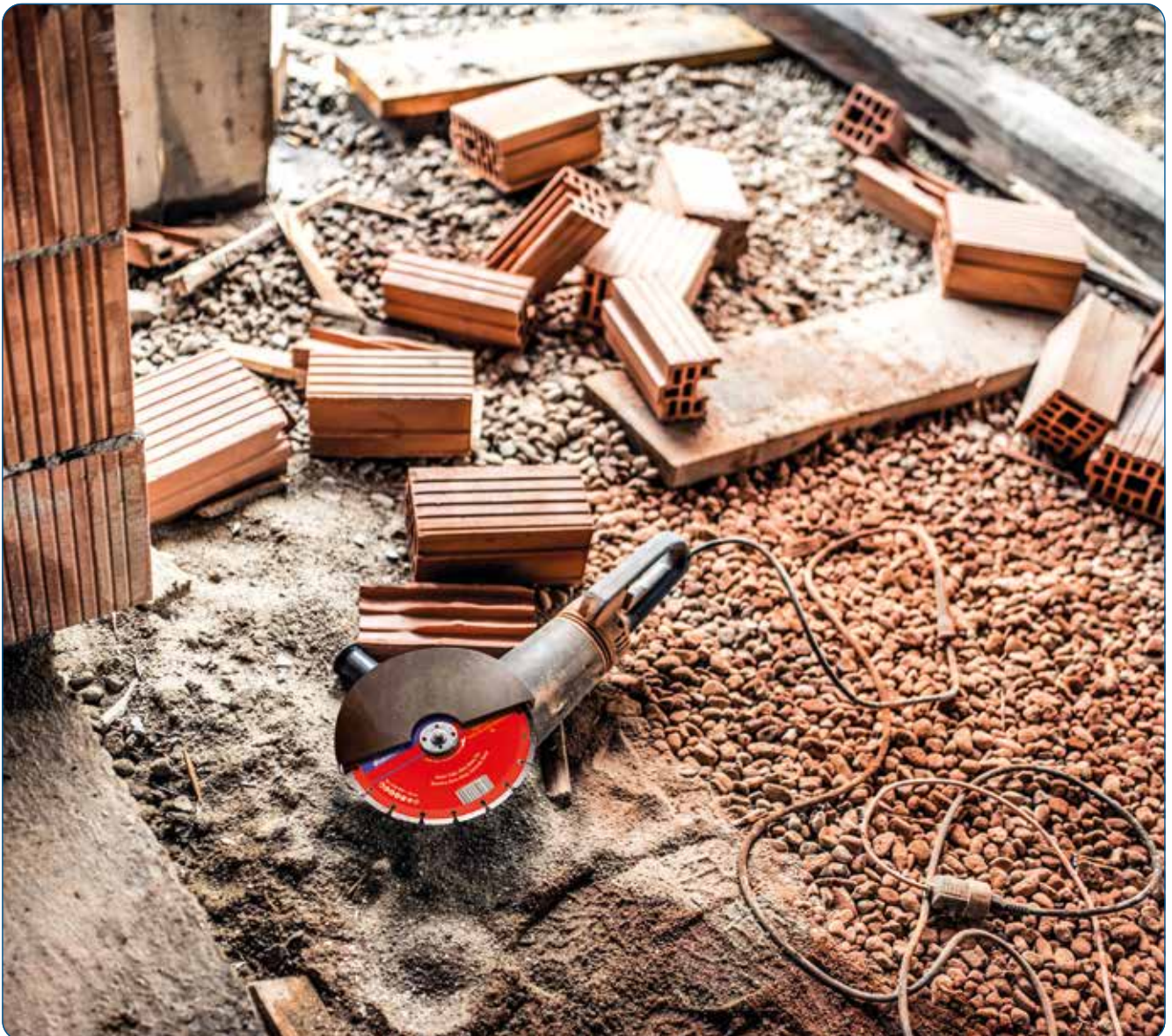



# Segmented Diamond Blades

Features : Suitable for dry cutting processes of concrete, brick, stone and masonry.



Type	Dimension (mm)	Article	Revolution Speed (m/s)	Box	M. Box
Normal	115x2.0x22.23	950110	80	1	-
	180x2.2x22.23	950120		1	-
	230x2.4x22.23	950130		1	-
Flanged	180x2.2x22.23	950140	80	1	-



## Thin Line Turbo Diamond Blade

Features : Suitable for wet and dry cutting processes of all kinds of ceramic and porcelain materials. It offers the advantage of high performance and quick cutting.



Type	Dimension (mm)	Article	Revolution Speed (m/s)	Box	M. Box
Normal	115x0.8x22.23	912048	80	1	-





# Turbo Diamond Blades



Features : Suitable for dry or wet cutting processes of concrete, brick, block, stone and masonry.

Type	Dimension (mm)	Article	Revolution Speed (m/s)	Box	M. Box
Normal	115x2.0x22.23	950310	80	1	-
	180x2.2x22.23	950320		1	-
	230x2.4x22.23	950330		1	-
Flanged	180x2.2x22.23	950340	80	1	-
	230x2.4x22.23	950350		1	-



## Continuous Rim Diamond Blades

Features : Suitable for wet precision cutting processes of ceramic, marble and glass.  
It does not break the material edges during cutting process.



Type	Dimension (mm)	Article	Revolution Speed (m/s)	Box	M. Box
Normal	115x1.8x22.23	950210	80	1	-
	180x2.0x22.23	950220		1	-
	230x2.3x22.23	950230		1	-





## Wave Turbo Diamond Blades



**Features** : Suitable for dry cutting processes of granite, hard concrete, hard brick and masonry. The wave shapes allows for air circulation and facilitates quicker cooling of the disc during cutting process.

Type	Dimension (mm)	Article	Revolution Speed (m/s)	Box	M. Box
Normal	115x 2.2x22.23	950410	80	1	-
	180x 2.4x22.23	950420		1	-
	230x 2.6x22.23	950430		1	-
Flanged	180x 2.4x22.23	950440	80	1	-
	230x 2.6x22.23	950450		1	-







# Coated Abrasives





- [Technical Information](#)

- [Technical Table](#)

- [Abrasive Belts & Rolls](#)

- [Flap Discs](#)

- [Fibre Discs](#)

- [Hook & Loop Discs](#)

- [Sheets and Sponges](#)

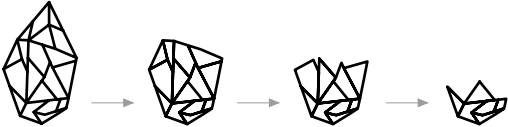
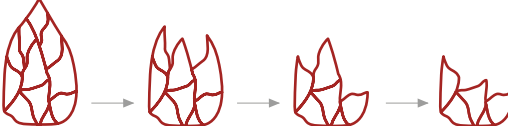
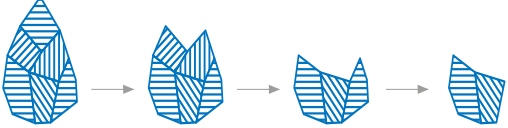
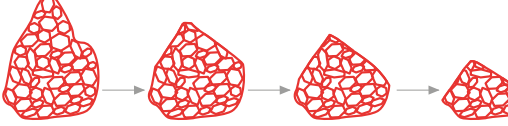
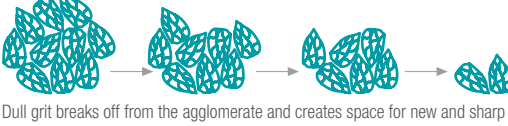
- [Flap Wheels](#)

- [Quick Lock Discs](#)

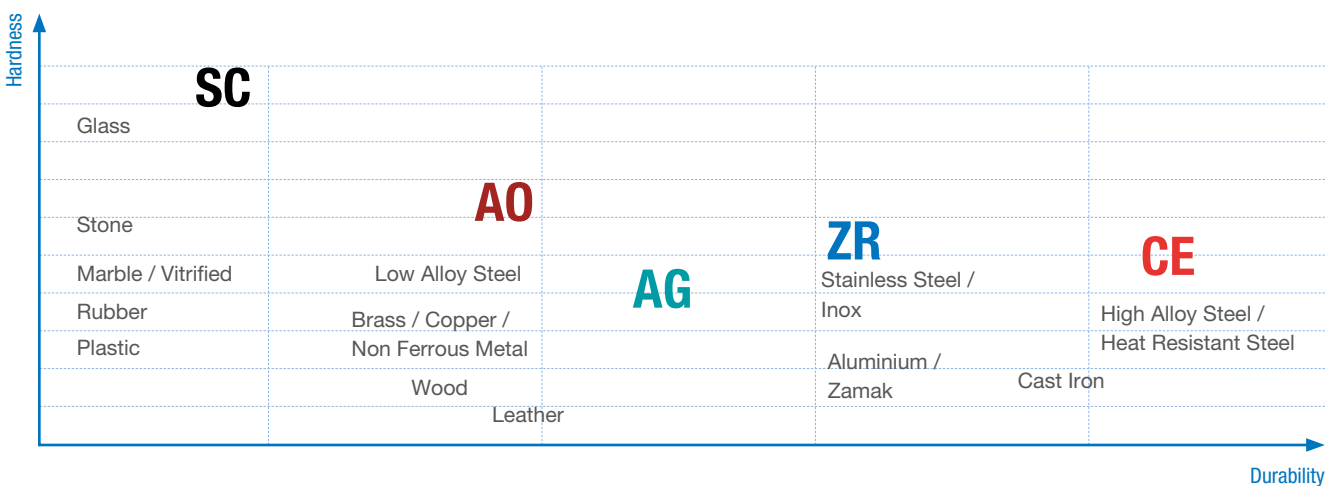
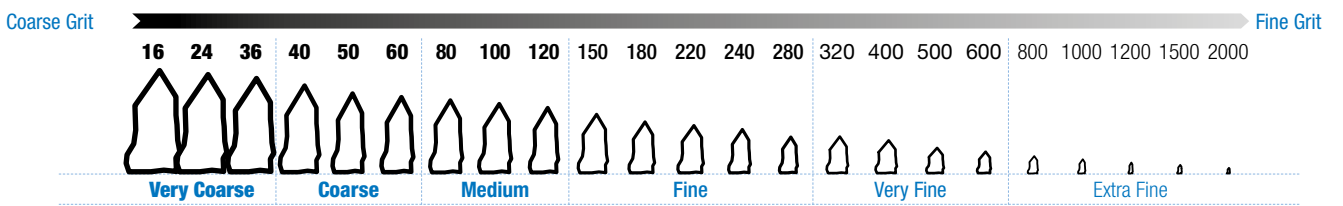




## Abrasive Grains

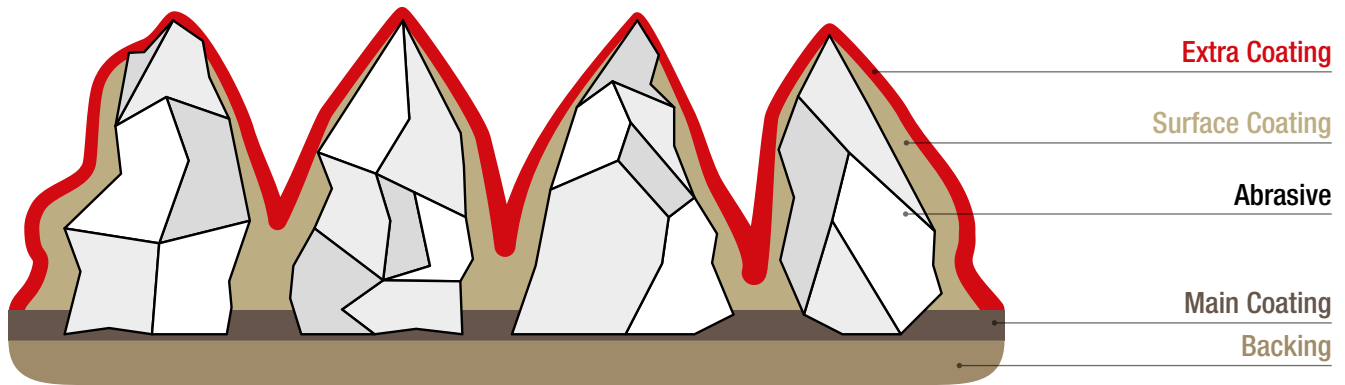
Types of Abrasive Grains	Description	Hardness	Durability	Structure	Property and Wear Behavior
<p><b>SC</b> Silicon Carbide</p>	Very hard and brittle abrasive for the surface finish of glass and stone materials, final finish for metal and coatings	Very Hard	Less Tough	Crystalline	 <p>Sharp-edged abrasive, coarse, brittle and highly friable micro-wear</p>
<p><b>AO</b> Aluminum Oxide</p>	Hard and durable abrasive for grinding of wood, metal and coatings	Hard	Tough	Crystalline, Irregular	 <p>Wedge-shaped, block structured abrasive, macro wear</p>
<p><b>ZR</b> Zirconia</p>	Hard and very durable abrasive for aggressive grinding of stainless steel, metal and wood	Hard	Very Tough	Crystalline, Regular	 <p>Wedge-shaped, block drop formed abrasive, micro wear, self-sharpening</p>
<p><b>CE</b> Ceramic</p>	Hard and very durable, long lasting and self-sharpening abrasive for machining of high alloy steel and stainless steel	Hard	Very Tough	Microcrystalline	 <p>Sharp-edged, pointed abrasive, micro wear, self-sharpening</p>
<p><b>AG</b> Compact Aluminum Oxide</p>	Continual and long lasting stock removal abrasive for all applications for grinding of high alloy steel and stainless steel	Hard	Tough	Resin-bonded Aluminum Oxide Minerals	 <p>Dull grit breaks off from the agglomerate and creates space for new and sharp grit</p>

## Grit Size Guide



Classification of abrasives according to their hardness, strength and application areas

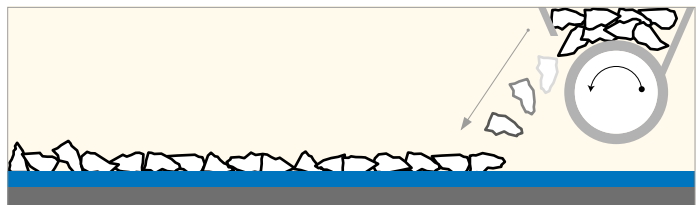
# Coating



Coating	Coating Type	Description
Extra Coating	Top Size Coating	Friction and heat absorbant (cooler effect) Top Size coating that enhances the performance.
	Stearat Coating	Anti-clogging (slipping effect) Stearate coating that enhances the performance.
Surface Coating	Size Coating	Coating that bonds abrasive grains to the main coating.
Main Coating	Make Coating	Coating that bonds abrasive grains to the backing. Electrostatically applied for optimum bonding.
Antistatic	Antistatic Coating	Electrode loads occur during grinding process of different materials, as a result, non-conductive materials such as wood adhere to the sanding surface and may adversely affect sanding performance. To avoid this, backings are selected from antistatic materials and coated with antistatic properties.

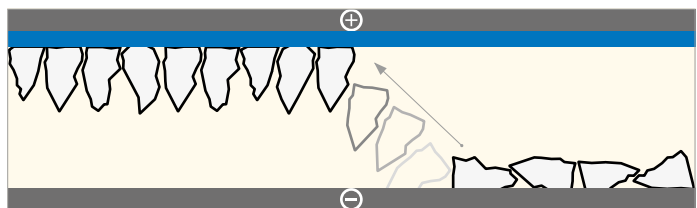
## Gravity Coating

Abrasive grains drop randomly on the backing, coated by the gravitational force. Mechanically coated abrasives with gravity coating are less aggressive and material removal performance is not very high.



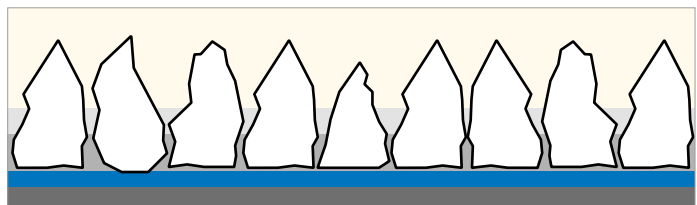
## Electrostatic Coating

Abrasive grains are electrostatically charged and set up perpendicularly on the backing with the main coating. The abrasives coated with electrostatic coating are much more aggressive. Products with gravitational coating and electrostatic coating are defined as split layers. If two different types of abrasives are used split layer (both gravity and electrostatic coating) is applied, if 100% one type of abrasive is used only electrostatic coating is applied. Time to time only gravity coating can be applied according to the size of the abrasive grain sizes.



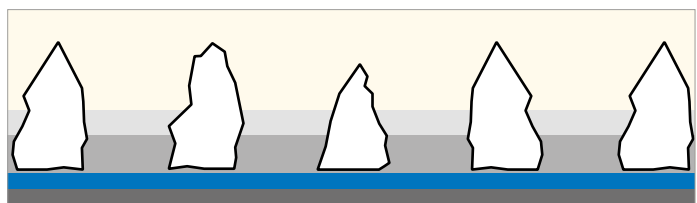
## Closed Coating

If the backing surface is completely covered with abrasive grain, it is called as Closed Coating.



## Semi-Open / Open Coating

If the backing surface is coated with 75% of abrasive grains, it is called Semi-Open Coating; if it is coated with 50% of abrasive grains, it is called Open Coating.



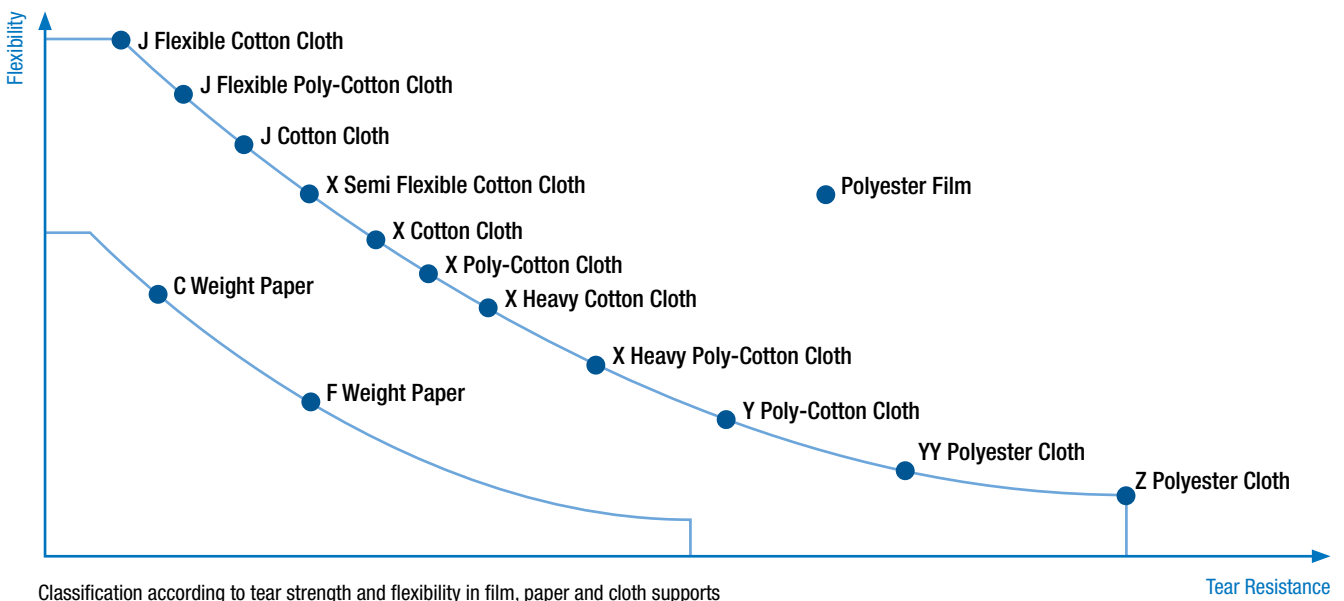


# Product Code Information

A		XP		R	1	1
Abrasive	Backing	Bond	Coating	Version		
<b>A</b> Aluminum Oxide	<b>H</b> Polyester Film	<b>X / XE</b> X Heavy Cotton Cloth	<b>1</b> Closed	<b>1</b> Standard		
<b>C</b> Silicon Carbide	<b>C</b> C Weight Paper	<b>XF</b> X Semi Flexible Cotton Cloth	<b>2</b> Semi-Open	<b>2</b> Version		
<b>Z</b> Zirconia	<b>F</b> F Weight Paper	<b>XP</b> X Heavy Poly-Cotton Cloth	<b>3</b> Stearat	<b>3</b> Version		
<b>CE</b> Ceramic	<b>J</b> J Cotton Cloth	<b>XP / Y</b> Y Poly-Cotton Cloth	<b>5</b> Top Size	<b>0</b> Version		
<b>AG</b> Compact Aluminum Oxide	<b>JF</b> J Flexible Cotton Cloth	<b>YX / YY</b> YY Polyester Cloth	<b>7</b> Antistatic & Closed			
	<b>JF / F</b> J Flexible Poly-Cotton Cloth	<b>Z</b> Z Polyester Cloth	<b>9</b> Antistatic & Semi-Open			
	<b>X</b> X Cotton Cloth	<b>WE / W</b> Vulcanized Fibre				
	<b>X</b> X Poly-Cotton Cloth					

## Backings

Backing	Backing Type	Classification	Application Example
<b>Film</b>	<b>Polyester Film</b>	Polyester Film	Surface sanding (machine)
<b>Paper</b>	<b>C Weight Paper</b>	Fine paper	Surface sanding (machine)
	<b>F Weight Paper</b>	Heavy paper	Surface sanding (machine)
<b>Cloth</b>	<b>J Flexible Cotton Cloth</b>	Light, very flexible	Very polished workpieces (manual & machine)
	<b>J Flexible Poly-Cotton Cloth</b>	Very flexible	Polished workpieces (manual & machine)
	<b>J Cotton Cloth</b>	Light, flexible	Very polished workpieces (manual & machine)
	<b>X Semi Flexible Cotton Cloth</b>	Heavy, flexible	Manually used flap wheels and mini belts
	<b>X Cotton Cloth</b>	Light, hard	Surfaces, edges, revolving bodies (machine)
	<b>X Heavy Cotton Cloth</b>	Heavy, hard	Surfaces, edges, revolving bodies (machine)
	<b>X Poly-Cotton Cloth</b>	Light, hard	Surfaces, edges, revolving bodies (machine)
	<b>X Heavy Poly-Cotton Cloth</b>	Heavy, very hard	Surfaces, edges, revolving bodies (machine)
	<b>Y Poly-Cotton Cloth</b>	Very heavy, hard	Surface sanding (machine)
	<b>YY Polyester Cloth</b>	Very heavy, very hard	Surfaces, edges, revolving bodies (machine)
<b>Fibre</b>	<b>Z Polyester Cloth</b>	Very heavy, very hard can be segmented	Surface sanding (machine)
	<b>Vulcanized Fibre</b>	Light, economic	Light metalwork (hand grinder)
	<b>Vulcanized Fibre</b>	Heavy, standard	Heavy metalwork (hand grinder)
	<b>Vulcanized Fibre</b>	Heavy, hard	Very heavy metalwork (hand grinder)



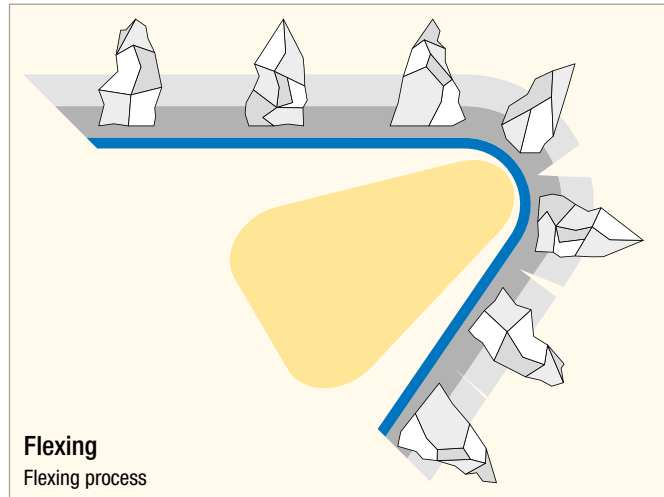
# Product Selection & Storage Conditions

In selection of the coated abrasive, material type of the workpiece to be sanded, type of the machine to be used in the application and the form in which the coated abrasive is to be used in this machine are very important. Accordingly, backing type, abrasive type and abrasive grain size are selected.

Some important parameters affecting the abrasive performance are; antistatic feature of the coated abrasive, the suitability for wet use, Top Size coating to prevent heat and clogging and flexibility/stiffness.

For high stock removal and long life, it is important that the coated abrasive has a flexible structure and the abrasive grains are not filled with workpiece.

Once the coated abrasive production is complete, stiffness must be reduced. This is achieved by softening the backing to a more elastic structure, providing abrasive grains to work more independent and high performance.



Surface Finish Variables	Rough Surface					Smooth Surface
Grit Size	Coarse					Fine
Coating	Open Coating	Semi-Open Coating		Closed Coating		
Belt Speed	Slow					Fast
Abrasive	Zirconia	Ceramic	Aluminum Oxide	Silicon Carbide	Compact Aluminum Oxide	
Workpiece Hardness	Soft					Hard

Cutting Efficiency Variables	More Aggressive, Better Cut					Less Aggressive, Lower Cut
Workpiece Feed Speed	Slow					Fast
Belt Speed	Slow					Fast
Grit Size	Coarse					Fine
Product Durability	Fibre	Cloth		Paper		
Abrasive	Zirconia	Ceramic	Aluminum Oxide	Silicon Carbide	Compact Aluminum Oxide	
Coating	Closed Coating	Semi-Open Coating		Open Coating		
Pressure	High	Medium		Low		
Workpiece Hardness	Soft					Hard

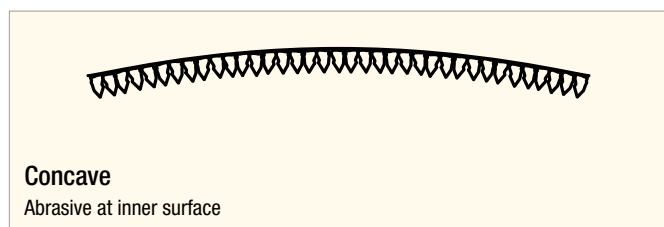
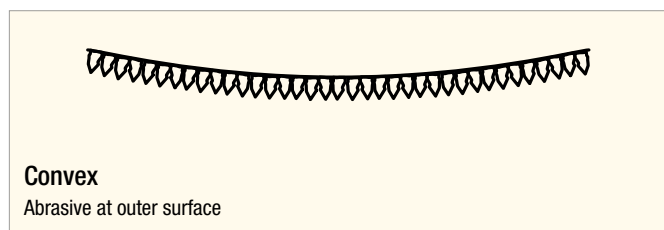
Temperature and humidity in storage conditions can cause the coated abrasive to curl over time.

Convex curl may occur if the air is less nematic than the backing material.

Concave curling can occur if the air is more nematic than the backing material.

Observe the following for storage conditions;

- Coated abrasives should not be stored in open areas for long time.
- Direct sunlight should be avoided where there are sudden changes in temperature and humidity levels.
- Extra precautions should be taken during seasonal changes of sudden temperature changes.
- The ideal storage condition is 45-65% at humidity level and 15-25 °C at temperature level.





Product Code					Abrasive	Backing	Bond	Coating	Version	Jumbo Width (mm)	Status																		
Abrasive	Backing	Bond	Coating	Version							Grit Range	16	24	36	40	50	60	80	100	120	150	180	220	240	280	320	400	500	600
A	H	R	3	1	AO	Polyester Film		Stearat & Semi-Open	Std.	1380	40-2000			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	C	R	3	1	AO	C Weight Paper		Stearat & Open	Std.	1440	40-1200			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
A	F	R	7	1	AO	F Weight Paper		Antistatic & Closed	Std.	1650	40-600			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
C	F	R	9	1	SC			Antistatic & Semi-Open	Std.	1650	40-800			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Z	F	R	9	1	ZR			Antistatic & Semi-Open	Std.	1650	36-400			○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
CE	F	R	9	1	CE			Antistatic & Semi-Open	Std.	1650	24-220			○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	J	R	1	1	AO	J Cotton Cloth		Closed	Std.	940	40-400			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	J	R	1	2	AO			Closed	Ver.	1650	40-400			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	JF	R	1	2	AO	J Flexible Cotton Cloth		Closed	Ver.	1650	60-600			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	JF	R	1	1	AO			Topsize & Closed	Std.	1650	60-800			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	JF	R	1	3	AO	J Flexible Poly-Cotton Cloth		Closed	Ver.	1650	80-600			●	○	●	●	●	●	●	○	●	●	●	●	●	●	●	
A	JF	R	1	0	AO			Topsize & Closed	Ver.	1650	60-600			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
C	JF	R	1	1	SC			Closed	Std.	1650	60-600			●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	
CE	F		5	1	CE			Topsize & Closed	Std.	1650	60-220			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	XF	R	1	1	AO	X Semi Flexible Cotton Cloth		Closed	Std.	1650	40-600			●	○	●	●	○	○	○	○	○	○	○	○	○	○	○	
A	XF	R	1	2	AO			Closed	Ver.	1650	40-400			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	X	OP	2	1	AO	X Cotton Cloth		Semi-Open	Std.	1650	16-400			○	○	●	○	●	●	●	●	●	●	●	●	●	●		
A	X	R	2	1	AO	X Poly-Cotton Cloth		Semi-Open	Std.	1650	36-400			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Z	X	R	1	1	ZR	X Heavy Cotton Cloth		Closed	Std.	1650	24-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Z	X	R	1	2	ZR			Closed	Ver.	1650	36-120			○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	
A	XE	R	1	1	AO			Closed	Std.	1650	40-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●		
A	XP	R	1	1	AO	X Heavy Poly-Cotton Cloth		Closed	Std.	1650	24-280			○	●	●	●	●	●	●	○	○	○	○	○	○	○	○	
Z	XP	R	1	1	ZR			Closed	Std.	1650	24-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Z	XP	R	2	2	ZR	Y Poly-Cotton Cloth		Closed	Ver.	1650	24-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
CE	Y		5	1	CE			Topsize & Closed	Std.	1650	36-120			●	●	○	●	●	○	○	○	○	○	○	○	○	○	○	
A	YX	R	1	1	AO	YY Polyester Cloth		Closed	Std.	1650	16-600			○	○	○	●	●	●	●	●	●	○	●	●	○	○	○	
C	YX	R	1	1	SC			Closed	Std.	1650	16-320			○	○	○	○	●	●	○	○	○	○	○	○	○	○	○	
Z	YY	R	1	1	ZR			Closed	Std.	1650	24-400			●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	
Z	YY	R	5	1	ZR			Topsize & Closed	Std.	1650	24-120			○	●	○	●	○	●	○	○	○	○	○	○	○	○	○	○
CE	YY	R	2	1	CE			Semi-Open	Std.	1650	24-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CE	YY	R	5	1	CE			Topsize & Closed	Std.	1650	36-120			●	●	○	●	●	○	○	○	○	○	○	○	○	○	○	○
CE	YY	R	5	2	CE			Topsize & Closed	Ver.	1650	24-120			○	●	●	○	●	○	○	○	○	○	○	○	○	○	○	○
AG	YY	R	2	1	AG			Semi-Open	Std.	1650	80-600			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AG	YY	R	2	4	AG			Semi-Open	Ver.	1650	80-600			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
C	Z	R	7	1	SC		Z Polyester Cloth		Antistatic & Closed	Std.	1650	36-220			○	●	●	●	●	●	●	○	○	○	○	○	○	○	○
A	WE	R	1	1	AO	Vulcanized Fibre		Closed	Std.	1650	16-120			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A	W	R	1	1	AO			Closed	Std.	1650	16-400			●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	
Z	W	R	1	1	ZR			Closed	Std.	1650	24-120			●	●	●	●	○	●	○	○	○	○	○	○	○	○	○	
Z	W	R	5	1	ZR			Topsize & Closed	Std.	1650	24-120			○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CE		R	5	1	CE			Topsize & Closed	Std.	1650	24-120			●	●	○	○	●	○	○	○	○	○	○	○	○	○	○	○





# Abrasive Belts & Rolls





Coated abrasives are served as rolls and endless belts in desired dimensions and also as well as jumbo rolls.

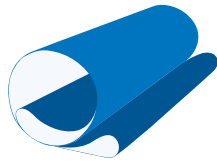




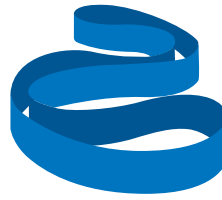
# Dimensions



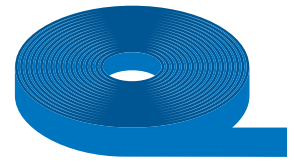
Segmented Belt



Wide Belt



Narrow Belt



Abrasive Roll

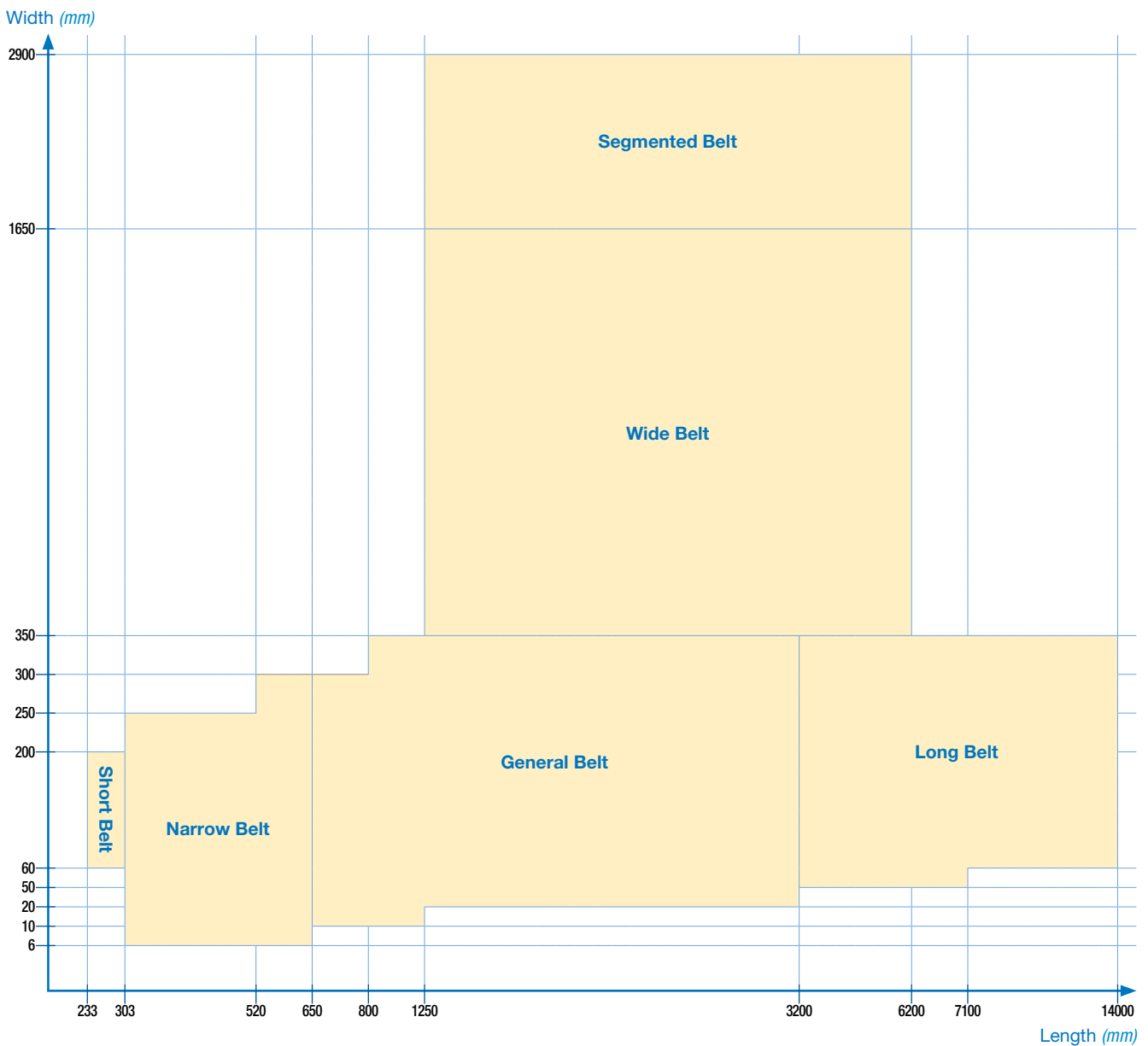
Endless belts can be produced in a wide range, width from 6mm to 2.600mm and length from 233mm to 14.000mm. Abrasive rolls can be produced in a wide range, width from 10mm to 1.650mm as jumbo roll width. Endless belt length is the total length in open form.

Jumbo products generally produced in 1.650mm width (and in 50 meters or 100 meters) are calculated in m<sup>2</sup> (*squaremeters*).

Abrasive rolls are generally produced in 50 meters length and calculated in lm (*linear meters*).

Endless belts are calculated in quantities. Dimensions are given with length at first and width at second (*Eg.: 610mmx100mm*).

## Endless Belt Dimension Graphic



# Joint Forms

Endless belts joint forms differ depending on the backing, width and grit size.

## Narrow Belt

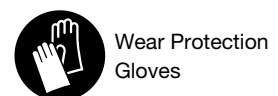
Backing	Width		Joint Type		
	Narrow Belt		With Film		
	6 - 19	20 - 350	6 - Straight <i>Foil at The Bottom, Grit Zone Ground Off</i> 16-80 Grit	2 - Straight <i>Foil at The Bottom</i> 100+ Grit	1 - Zigzag <i>Foil at The Bottom</i>
Cloth	•		•	•	
		•	•	•	•
Paper		•	•	•	

## Wide & Segmented Belts

Backing	Width		Joint Type				
	Wide Belt	Segmented Belt*	With Film			5 - Straight Overlap <i>Grit Zone Ground Off</i>	4 - Straight Overlap <i>Standard Joint</i>
	351 - 1650	1651 - 2700	6 - Straight <i>Foil at The Bottom, Grit Zone Ground Off</i> 16-80 Grit	2 - Straight <i>Foil at The Bottom</i> 100+ Grit	3 - Straight <i>Foil at The Top</i>		
Cloth	•	•	•	•	•		
Paper	•	•				•	•

\* For cloth backing only CZR71 is suitable.

# Safety Pictograms



















# C Weight Paper

## ACR31






### Product Form

- Jumbo Roll 
- Segmented Belt 
- Wide Belt 
- Narrow Belt 
- Roll 
- Sheet 
- Disc 
- Hook & Loop Disc 
- Flap Wheel 
- Flap Disc 
- Fibre Disc 
- Quick Lock Disc 

**Abrasive** : Aluminum Oxide  
**Backing** : C Weight Paper  
**Bond** : Resin Over Resin  
**Coating** : Stearate & Open  
**Grit Range** : 40-1200  
**Features** : Ideal for sanding undercoated, painted and varnished surfaces in wood, automotive, paint and marine sectors. C weight paper backing with open coated Aluminum Oxide abrasive, also with anti-clogging Stearate coating which allows long lifetime and constant grinding.








### Application Method

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder 
- Mini Disc Sander 

### Application Area

- Wood 
- Low Alloy Steel 
- Stainless Steel / Inox 
- High Alloy Steel / Heat Resistant Steel 
- Aluminium / Zamak 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron 
- Glass / Stone / Granite / Ceramic 

### Features

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant 

			40	60	80	100	120	150	180	220	240	280	320	400	500	600	800	1000	1200		
--	--	--	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	--	--



Hook & Loop Disc





























































# X Poly-Cotton Cloth











## AXR21



**Abrasive** : Aluminum Oxide  
**Backing** : X Poly-Cotton Cloth  
**Bond** : Resin Over Resin  
**Coating** : Semi-Open  
**Grit Range** : 36-400  
**Features** : Ideal for sanding low alloy steel, aluminium, zamak, non ferrous metals, cast iron and wood in wide belts, narrow belts, rolls, sheets and hook&loop discs. X poly-cotton backing with Semi-Open coated aggressive Aluminum Oxide abrasive

- Product Form**
- Jumbo Roll 
  - Segmented Belt 
  - Wide Belt 
  - Narrow Belt 
  - Roll 
  - Sheet 
  - Disc 
  - Hook & Loop Disc 
  - Flap Wheel 
  - Flap Disc 
  - Fibre Disc 
  - Quick Lock Disc 











**Application Method**

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder 
- Mini Disc Sander 

	36	40	60	80	120	150	180	240		400								
--	----	----	----	----	-----	-----	-----	-----	--	-----	--	--	--	--	--	--	--	--



**Application Area**

- Wood 
- Low Alloy Steel 
- Stainless Steel / Inox 
- High Alloy Steel / Heat Resistant Steel 
- Aluminium / Zamak 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron 
- Glass / Stone / Granite / Ceramic 

**Features**

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant 





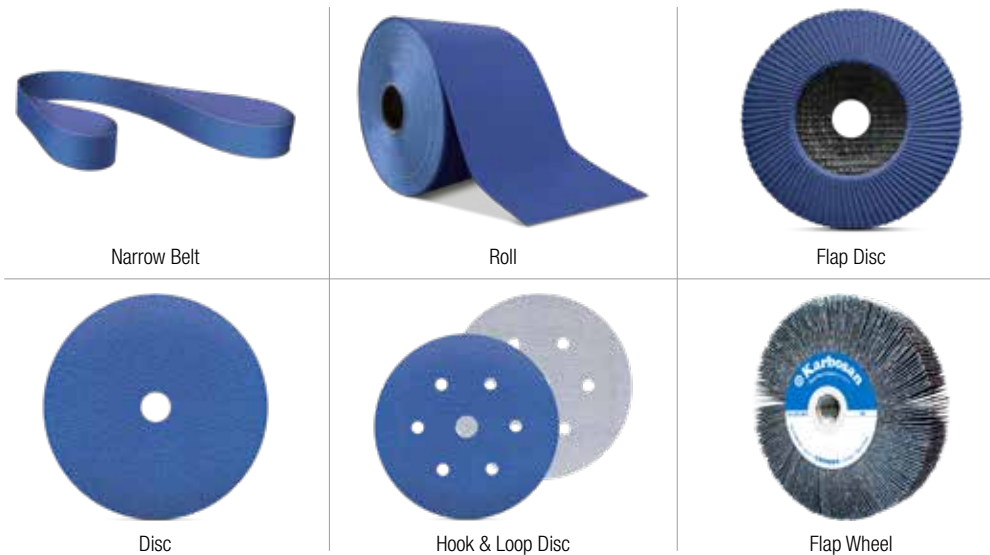
# X Heavy Cotton Cloth



## ZXR11

**Abrasive** : Zirconia  
**Backing** : X Heavy Cotton Cloth  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding stainless steel and low alloy steel in narrow belts, rolls, hook&loop discs, flap discs and flap wheels. X heavy cotton cloth backing with aggressive Zirconia abrasive.

24 36 40 50 60 80 100 120



### Product Form

Jumbo Roll	
Segmented Belt	
Wide Belt	
Narrow Belt	
Roll	
Sheet	
Disc	
Hook & Loop Disc	
Flap Wheel	
Flap Disc	
Fibre Disc	
Quick Lock Disc	

### Application Method

Polishing	
Endless Belt	
Hand Use	
Wide Belt	
Mini Belt	
Flap Wheel Machine	
Floor Sanding	
Orbital Sander	
Hand Grinder	
Mini Disc Sander	

### Application Area

Wood	
Low Alloy Steel	
Stainless Steel / Inox	
High Alloy Steel / Heat Resistant Steel	
Aluminium / Zamak	
Brass / Copper / Non Ferrous Metal	
Paint / Varnish / Lacquer	
Plastic / Rubber / Leather	
Cast Iron	
Glass / Stone / Granite / Ceramic	

### Features

Antistatic Feature	
Suitable for Wet Applications	
Friction & Heat Absorbant	
Anti-Clogging	
Flexible for Curved Surfaces	
Easily Tearable by Hand	
Tear Resistant	



## X Heavy Cotton Cloth

# ZXR12



Product Form	
Jumbo Roll	
Segmented Belt	
Wide Belt	
Narrow Belt	
Roll	
Sheet	
Disc	
Hook & Loop Disc	
Flap Wheel	
Flap Disc	
Fibre Disc	
Quick Lock Disc	

**Abrasive** : Zirconia  
**Backing** : X Heavy Cotton Cloth  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 36-120  
**Features** : Ideal for sanding stainless steel and low alloy steel in narrow belts, rolls, hook&loop discs, flap discs and flap wheels. X heavy cotton cloth backing with Zirconia abrasive.

### Application Method

Polishing	
Endless Belt	
Hand Use	
Wide Belt	
Mini Belt	
Flap Wheel Machine	
Floor Sanding	
Orbital Sander	
Hand Grinder	
Mini Disc Sander	

		36	40	60	80	100	120												
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Narrow Belt	Roll	Flap Disc
Disc	Hook & Loop Disc	Flap Wheel

### Application Area

Wood	
Low Alloy Steel	
Stainless Steel / Inox	
High Alloy Steel / Heat Resistant Steel	
Aluminium / Zamak	
Brass / Copper / Non Ferrous Metal	
Paint / Varnish / Lacquer	
Plastic / Rubber / Leather	
Cast Iron	
Glass / Stone / Granite / Ceramic	

### Features

Antistatic Feature	
Suitable for Wet Applications	
Friction & Heat Absorbant	
Anti-Clogging	
Flexible for Curved Surfaces	
Easily Tearable by Hand	
Tear Resistant	



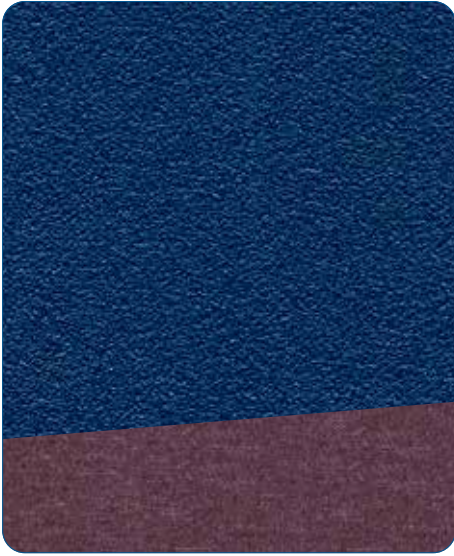








## X Heavy Poly-Cotton Cloth



# ZXR11

**Abrasive** : Zirconia  
**Backing** : X Heavy Poly-Cotton Cloth  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding low alloy steel, stainless steel, high alloy steel, heat resistant steel, cast iron and wood in wide belts, narrow belts, rolls and flap discs. X heavy poly-cotton cloth backing with Zirconia abrasive.

24 36 40 50 60 80 100 120



Wide Belt



Narrow Belt



Roll



Flap Disc



### Product Form

Jumbo Roll	
Segmented Belt	
Wide Belt	
Narrow Belt	
Roll	
Sheet	
Disc	
Hook & Loop Disc	
Flap Wheel	
Flap Disc	
Fibre Disc	
Quick Lock Disc	

### Application Method

Polishing	
Endless Belt	
Hand Use	
Wide Belt	
Mini Belt	
Flap Wheel Machine	
Floor Sanding	
Orbital Sander	
Hand Grinder	
Mini Disc Sander	

### Application Area

Wood	
Low Alloy Steel	
Stainless Steel / Inox	
High Alloy Steel / Heat Resistant Steel	
Aluminium / Zamak	
Brass / Copper / Non Ferrous Metal	
Paint / Varnish / Lacquer	
Plastic / Rubber / Leather	
Cast Iron	
Glass / Stone / Granite / Ceramic	

### Features

Antistatic Feature	
Suitable for Wet Applications	
Friction & Heat Absorbant	
Anti-Clogging	
Flexible for Curved Surfaces	
Easily Tearable by Hand	
Tear Resistant	

# Y Poly-Cotton Cloth

## ZXPR22



Product Form	
Jumbo Roll	
Segmented Belt	
Wide Belt	
Narrow Belt	
Roll	
Sheet	
Disc	
Hook & Loop Disc	
Flap Wheel	
Flap Disc	
Fibre Disc	
Quick Lock Disc	

**Abrasive** : Zirconia  
**Backing** : Y Poly-Cotton Cloth  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding low alloy steel, stainless steel, high alloy steel, heat resistant steel, cast iron and parquet in narrow belts, rolls and flap discs. High stock removal and long life with Y poly-cotton cloth backing and 100% Zirconia abrasive.

Application Method	
Polishing	
Endless Belt	
Hand Use	
Wide Belt	
Mini Belt	
Flap Wheel Machine	
Floor Sanding	
Orbital Sander	
Hand Grinder	
Mini Disc Sander	

24	36	40	50	60	80	100	120												
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Application Area	
Wood	
Low Alloy Steel	
Stainless Steel / Inox	
High Alloy Steel / Heat Resistant Steel	
Aluminium / Zamak	
Brass / Copper / Non Ferrous Metal	
Paint / Varnish / Lacquer	
Plastic / Rubber / Leather	
Cast Iron	
Glass / Stone / Granite / Ceramic	

Features	
Antistatic Feature	
Suitable for Wet Applications	
Friction & Heat Absorbant	
Anti-Clogging	
Flexible for Curved Surfaces	
Easily Tearable by Hand	
Tear Resistant	



















# YY Polyester Cloth

## AYXR11













**Abrasive** : Aluminum Oxide  
**Backing** : YY Polyester Cloth  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 16-600  
**Features** : Ideal for sanding low alloy steel, stainless steel, high alloy steels, heat resistant steels, plastic, leather, rubber and wood in wide belts, narrow belts, rolls, hook&loop discs and quick lock disc. YY polyester cloth backing with aggressive Aluminum Oxide abrasive. Suitable for wet applications.











### Product Form

- Jumbo Roll 
- Segmented Belt 
- Wide Belt 
- Narrow Belt 
- Roll 
- Sheet 
- Disc 
- Hook & Loop Disc 
- Flap Wheel 
- Flap Disc 
- Fibre Disc 
- Quick Lock Disc 

### Application Method

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder 
- Mini Disc Sander 

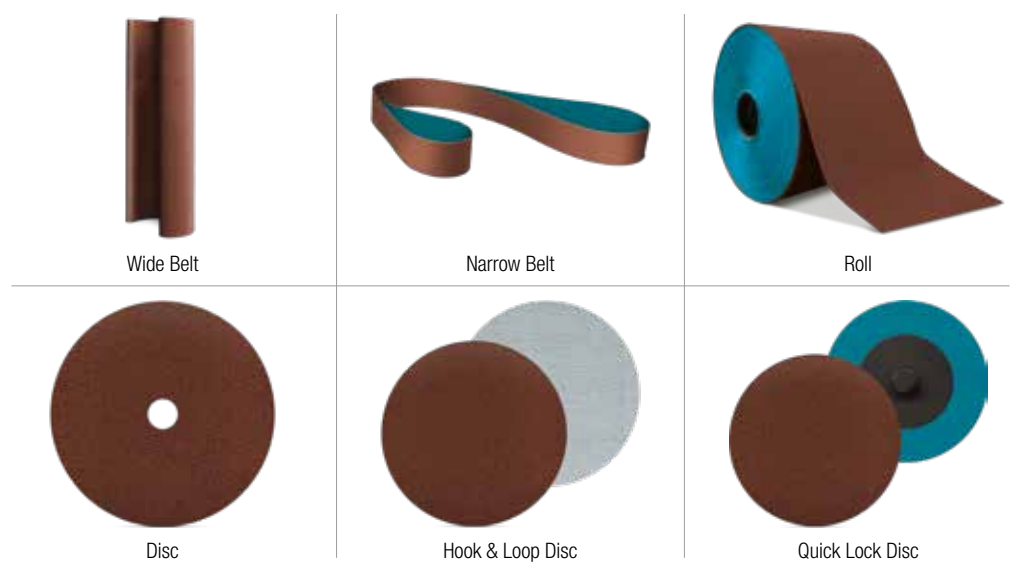
### Application Area

- Wood 
- Low Alloy Steel 
- Stainless Steel / Inox 
- High Alloy Steel / Heat Resistant Steel 
- Aluminium / Zamak 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron 
- Glass / Stone / Granite / Ceramic 

### Features

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant 

16	36	40	60	80	100	120	150	180	220	240	280	320	400	500	600				
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## YY Polyester Cloth

### ZYYR51













#### Product Form

- Jumbo Roll 
- Segmented Belt 
- Wide Belt 
- Narrow Belt 
- Roll 
- Sheet 
- Disc 
- Hook & Loop Disc 
- Flap Wheel 
- Flap Disc 
- Fibre Disc 
- Quick Lock Disc 











**Abrasive** : Zirconia  
**Backing** : YY Polyester Cloth  
**Bond** : Resin Over Resin  
**Coating** : Topsize & Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron materials in wide belts, narrow belts, rolls and quick lock disc. High stock removal and long life with YY polyester cloth backing with 100% Zirconia abrasive, also with friction and heat resistant Topsize coating. Suitable for wet applications.

#### Application Method

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder 
- Mini Disc Sander 

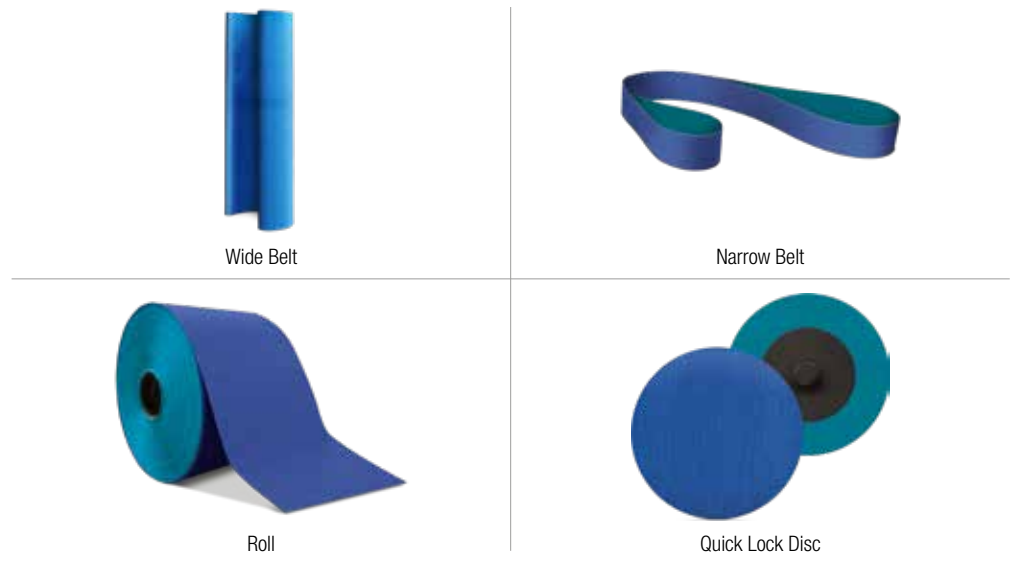
	24	36	40	50	60	80	100	120											
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#### Application Area

- Wood 
- Low Alloy Steel 
- Stainless Steel / Inox 
- High Alloy Steel / Heat Resistant Steel 
- Aluminium / Zamak 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron 
- Glass / Stone / Granite / Ceramic 

#### Features

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant 

























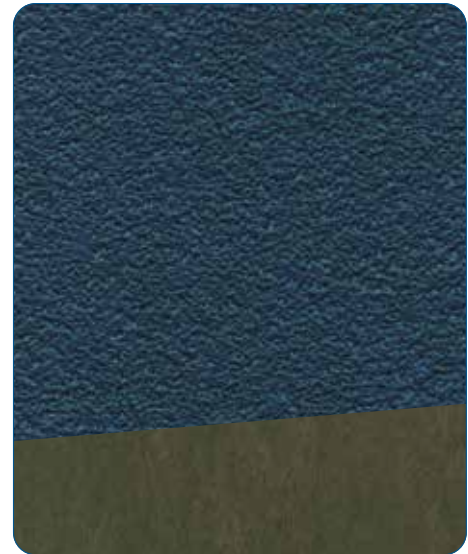







## Vulcanized Fibre

# ZWR11




**Abrasive** : Zirconia  
**Backing** : Vulcanized Fibre  
**Bond** : Resin Over Resin  
**Coating** : Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding low alloy steel, stainless steel, high alloy steel, heat resistant steel, aluminium, zamak and cast iron in fibre discs. Vulcanized fibre backing with Zirconia abrasive.











### Product Form

- Jumbo Roll 
- Segmented Belt 
- Wide Belt 
- Narrow Belt 
- Roll 
- Sheet 
- Disc 
- Hook & Loop Disc 
- Flap Wheel 
- Flap Disc 
- Fibre Disc** 
- Quick Lock Disc 








### Application Method

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder** 
- Mini Disc Sander 

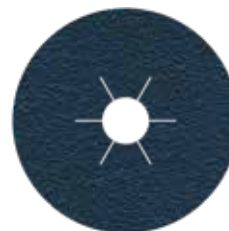
### Application Area

- Wood 
- Low Alloy Steel** 
- Stainless Steel / Inox** 
- High Alloy Steel / Heat Resistant Steel** 
- Aluminium / Zamak** 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron** 
- Glass / Stone / Granite / Ceramic 

### Features

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant** 

24	36	40	60	80	100	120													
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Fibre Disc


















## Vulcanized Fibre

### CER51




**Abrasive** : Ceramic  
**Backing** : Vulcanized Fibre  
**Bond** : Resin Over Resin  
**Coating** : Topsize & Closed  
**Grit Range** : 24-120  
**Features** : Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron in fibre discs. Vulcanized fibre backing with Ceramic abrasive and also with friction and heat resistant Topsize coating.











#### Product Form

- Jumbo Roll 
- Segmented Belt 
- Wide Belt 
- Narrow Belt 
- Roll 
- Sheet 
- Disc 
- Hook & Loop Disc 
- Flap Wheel 
- Flap Disc 
- Fibre Disc** 
- Quick Lock Disc 

#### Application Method

- Polishing 
- Endless Belt 
- Hand Use 
- Wide Belt 
- Mini Belt 
- Flap Wheel Machine 
- Floor Sanding 
- Orbital Sander 
- Hand Grinder** 
- Mini Disc Sander 

#### Application Area

- Wood 
- Low Alloy Steel 
- Stainless Steel / Inox** 
- High Alloy Steel / Heat Resistant Steel** 
- Aluminium / Zamak 
- Brass / Copper / Non Ferrous Metal 
- Paint / Varnish / Lacquer 
- Plastic / Rubber / Leather 
- Cast Iron** 
- Glass / Stone / Granite / Ceramic 

#### Features

- Antistatic Feature 
- Suitable for Wet Applications 
- Friction & Heat Absorbant** 
- Anti-Clogging 
- Flexible for Curved Surfaces 
- Easily Tearable by Hand 
- Tear Resistant** 

24	36	40	50	60	80	100	120													
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Fibre Disc





# Flap Discs





Karbosan flap discs are offered in various types to meet different application needs.


















## Product Category Information

Karbosan flap discs are offered in various types to meet different application needs. Flap discs are served with a total of 10 different types of Aluminum Oxide, Zirconium and Ceramic abrasives, from 36 grit to 120 grit, from 100mm diameter to 180mm diameter, with various density types on conical and flat fiberglass backings.

Karbosan flap discs are divided into 3 main groups; **Comfort Line** with cotton abrasive backing, **Universal Line** and **Premium Line** with Polycotton abrasive backing; also composed of 3 different density types; low, standard and high.

Category	Abrasive	Product Code	Backing	LD Low Density	SD Standard Density	HD High Density
<b>Comfort Line</b>	<b>AO</b> Aluminum Oxide	AXER11	X Heavy Cotton Cloth			
	<b>ZR</b> Zirconia	ZXR11				
<b>Universal Line</b>	<b>ZR</b> Zirconia	ZXPR11				
<b>Premium Line</b>	<b>AO</b> Aluminum Oxide	AXPR11	X Heavy Poly-Cotton Cloth			
	<b>100% ZR</b> Zirconia	ZXPR22	Y Poly-Cotton Cloth			
	<b>CE</b> Ceramic	CEY51				
<b>New Product</b>	<b>ZR</b> Zirconia	ZXR12	X Heavy Cotton Cloth			

## Backing Types

Fibre Glass



Plastic



## Categories

### Comfort Line

- Used for low pressure and low power operations
- 100% Cotton abrasive backing

### Universal Line

- For medium to high pressure and power operations
- Polycotton abrasive backing resistant to heavy applications

### Premium Line

- Used for high pressure and high power operations
- Polycotton abrasive backing resistant to heavy applications

## Densities

### LD Low Density



- Once adequate performance is needed
- Economical product with less flaps
- Reasonable price, suitable for personal use

### SD Standard Density



- High stock removal operations
- Suitable for all application areas
- Favored in price - performance perspective

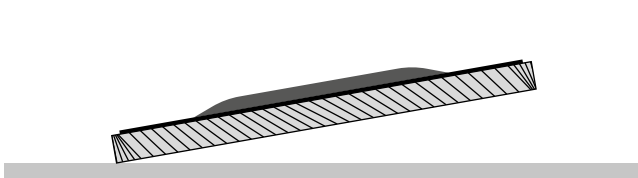
### HD High Density



- Aggressive sanding of curved and wide surfaces
- Long life product with wider and more flaps
- Ideal for industrial heavy duty applications

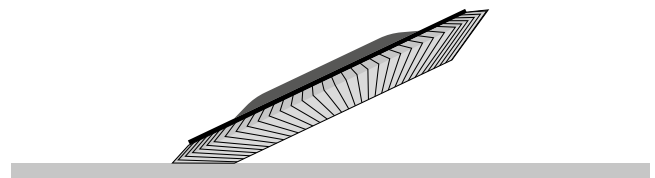
## Types and Diameters

### Flat Type



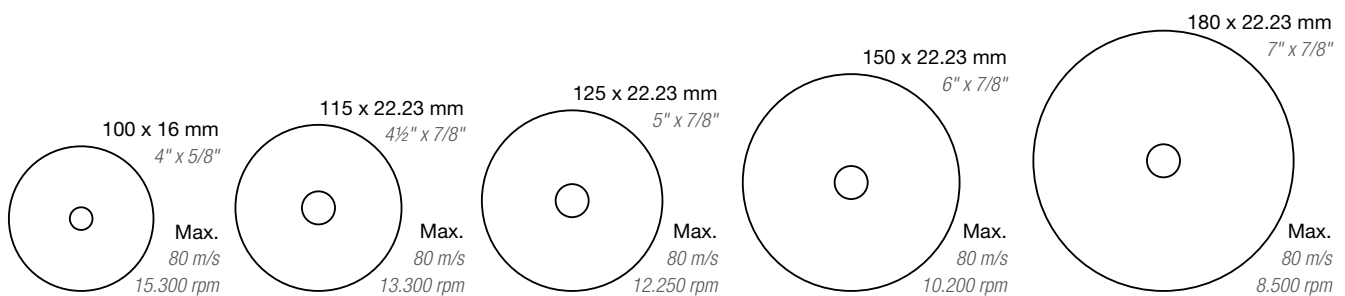
- Used in flat surfaces
- Ideal for blending and finishing
- Applied primarily between 0° to 15°

### Conical Type



- Used in concaved surfaces and edges
- High stock removal with best surface contact
- Applied primarily between 15° to 25°

### Flap Disc Diameters



## Advantages of Flap Discs

### Advantages Against Grinding Discs

- Faster and easier stock removal
- Smoother finishing
- Cooler grinding with reduced adhesion and less lubricant
- Lighter equipment, easier control
- Less vibration, less operator fatigue, less noise

### Advantages Against Fibre Discs

- Longer lifetime, lower cost
- Fewer disc changes, less labor cost
- More consistent finish
- No back-up pad required
- Easier storage and longer shelf life



# Product Types

**Comfort Line**



**Product Code**

ZXR11

**Backing**

X Heavy Cotton Cloth

**New Product**



**Product Code**

ZXR12

**Backing**

X Heavy Cotton Cloth

**Comfort Line**



**Product Code**

AXER11

**Backing**

X Heavy Cotton Cloth

**Universal Line**



**Product Code**

ZXPR11

**Backing**

X Heavy Poly-Cotton Cloth

**Premium Line**



**Product Code**

CEY51

**Backing**

Y Poly-Cotton Cloth

**Premium Line**

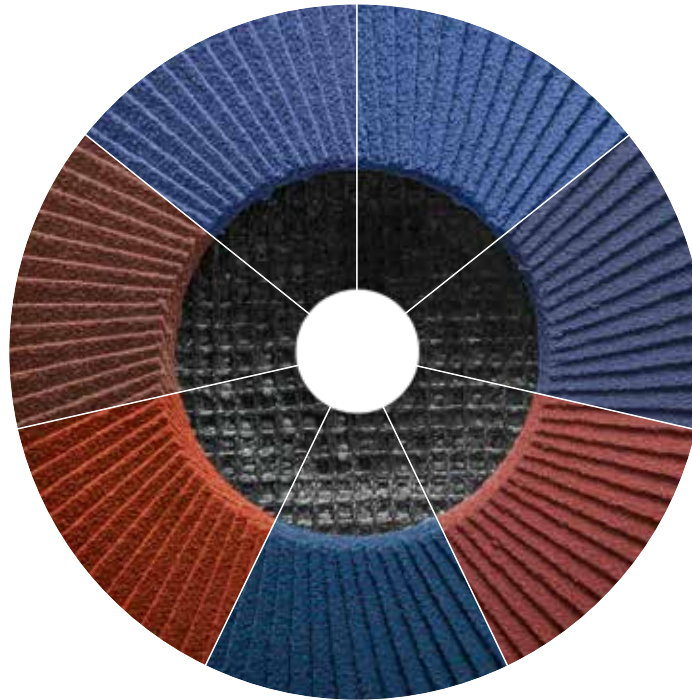


**Product Code**

AXPR11

**Backing**

X Heavy Poly-Cotton Cloth



**Premium Line**



**Product Code**

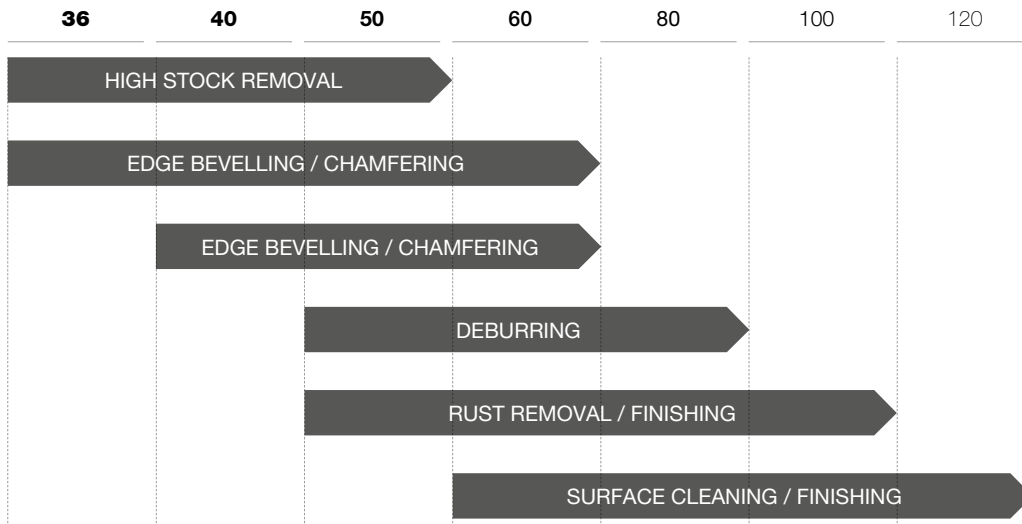
ZXPR22

**Backing**

Y Poly-Cotton Cloth

## Grit Size Application Guide

Coarse Grit  Fine Grit



# Application and Performance Table

- Perfect
- Suitable
- Possible

	Abrasive	Wood	Low Alloy Steel	Stainless Steel / Inox	High Alloy Steel / Heat Resistant Steel	Aluminium / Zamak	Brass / Copper / Non Ferrous Metal	Plastic / Rubber / Leather	Cast Iron	Density		
										LD Low Density	SD Standard Density	HD High Density
<b>Comfort Line</b>	<b>AO</b> Aluminum Oxide <i>AXER11</i>	●●	●●●	●		●	●	●		Stock Removal ●○○○○	Stock Removal ●●○○○	
	<b>ZR</b> Zirconia <i>ZXR11</i>	●	●●●	●●●	●					Stock Removal ●●○○○	Stock Removal ●●○○○	Stock Removal ●●●○○
<b>Universal Line</b>	<b>ZR</b> Zirconia <i>ZXPR11</i>		●●●	●●	●				●		Stock Removal ●●●○○	Lifetime ●●○○○
<b>Premium Line</b>	<b>AO</b> Aluminum Oxide <i>AXPR11</i>	●	●●●	●		●	●	●	●		Stock Removal ●●○○○	Lifetime ●●○○○
	<b>%100 ZR</b> Zirconia <i>ZXPR22</i>		●●●	●	●●				●		Stock Removal ●●●○○	Stock Removal ●●●○○
	<b>CE</b> Ceramic <i>CEY51</i>		●	●●●	●●●				●		Stock Removal ●●●○○	Lifetime ●●○○○
<b>New Product</b>	<b>ZR</b> Zirconia <i>ZXR12</i>	●	●●●	●●●	●					Stock Removal ●●○○○	Stock Removal ●●○○○	Stock Removal ●●●○○

## Label Information

Brand		Outer Information Strip
Category		Density
Product Group		Grit Size and Flap Type
Abrasive Type		Article, Origin, Barcode and Website
Inner Information Strip		Information Pictogram
Application Type		Standard Conformity and OSA Membership Logo
Dimensions		
Rotation and Speed Data		
Safety and Personal Protective Equipment Pictograms		



# Comfort Line Flap Discs





**AO** *Comfort Line*  
Aluminum Oxide **LD** Low Density



Stock Removal ●○○○○○  
Lifetime ●●○○○○

Product Code : AXER11  
Abrasive : Aluminum Oxide  
Backing : X Heavy Cotton Cloth  
Application : Multipurpose grinding for steel and metal.  
Density : Less flap version Low Density flap discs are economic with required performance.

Type	Dimension (mm)	Peripheral Speed (m/s)	40	60	80	120	Box	M. Box
 Flat	115x22.23	80	981170	981180	981185	981195	10	120
	125x22.23		981330	981340	981345	981355	10	120
 Conical	115x22.23	80	981210	981220	981225	-	10	120
	125x22.23		981370	981380	981385	981395	10	120
	180x22.23		981690	981700	981705	-	10	80



Comfort Line Flap Discs



**AO** *Comfort Line*  
 Aluminum Oxide **SD** Standard Density



Stock Removal ●●●○○○  
 Lifetime ●●●○○○



- Product Code : AXER11
- Abrasive : Aluminum Oxide
- Backing : X Heavy Cotton Cloth
- Application : Multipurpose grinding for steel and metal.
- Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	40	60	80	120	Box	M. Box
 Flat	115x22.23	80	981250	981260	981265	981275	10	120
	125x22.23		981410	981420	981425	981435	10	120
	180x22.23		981730	981740	981745	981755	10	80
 Conical	115x22.23	80	981290	981300	981305	981315	10	120
	125x22.23		981450	981460	981465	981475	10	120
	180x22.23		981770	981780	981785	981795	10	80



\*Plastic Backing Pad option is available.





Comfort Line Flap Discs

**ZR** *Comfort Line*  
Zirconia **SD** Standard Density





Stock Removal ●●●○○○  
Lifetime ●●●○○○



Iron and sulfur less than 0.1%.

Product Code : ZXR11  
Abrasive : Zirconia  
Backing : X Heavy Cotton Cloth  
Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).  
Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	100x16	80	-	-	981890	-	923662	981905	-	981915	10	120
	115x22.23		-	982125	982130	-	982140	982145	-	982155	10	120
	125x22.23		-	982365	982370	-	982380	982385	982390	982395	10	120
	180x22.23		-	982765	982770	-	982780	982785	-	982795	10	80
 Conical	100x16	80	-	-	981930	-	981940	981945	-	981955	10	120
	115x22.23		-	982165	982170	-	982180	982185	982190	982195	10	120
	125x22.23		-	921270	982410	-	982420	982425	-	982435	10	120
	180x22.23		-	982805	982810	-	982820	982825	-	982835	10	80



\*Plastic Backing Pad option is available.



## Comfort Line Flap Discs





# ZR *Comfort Line*

## HD High Density



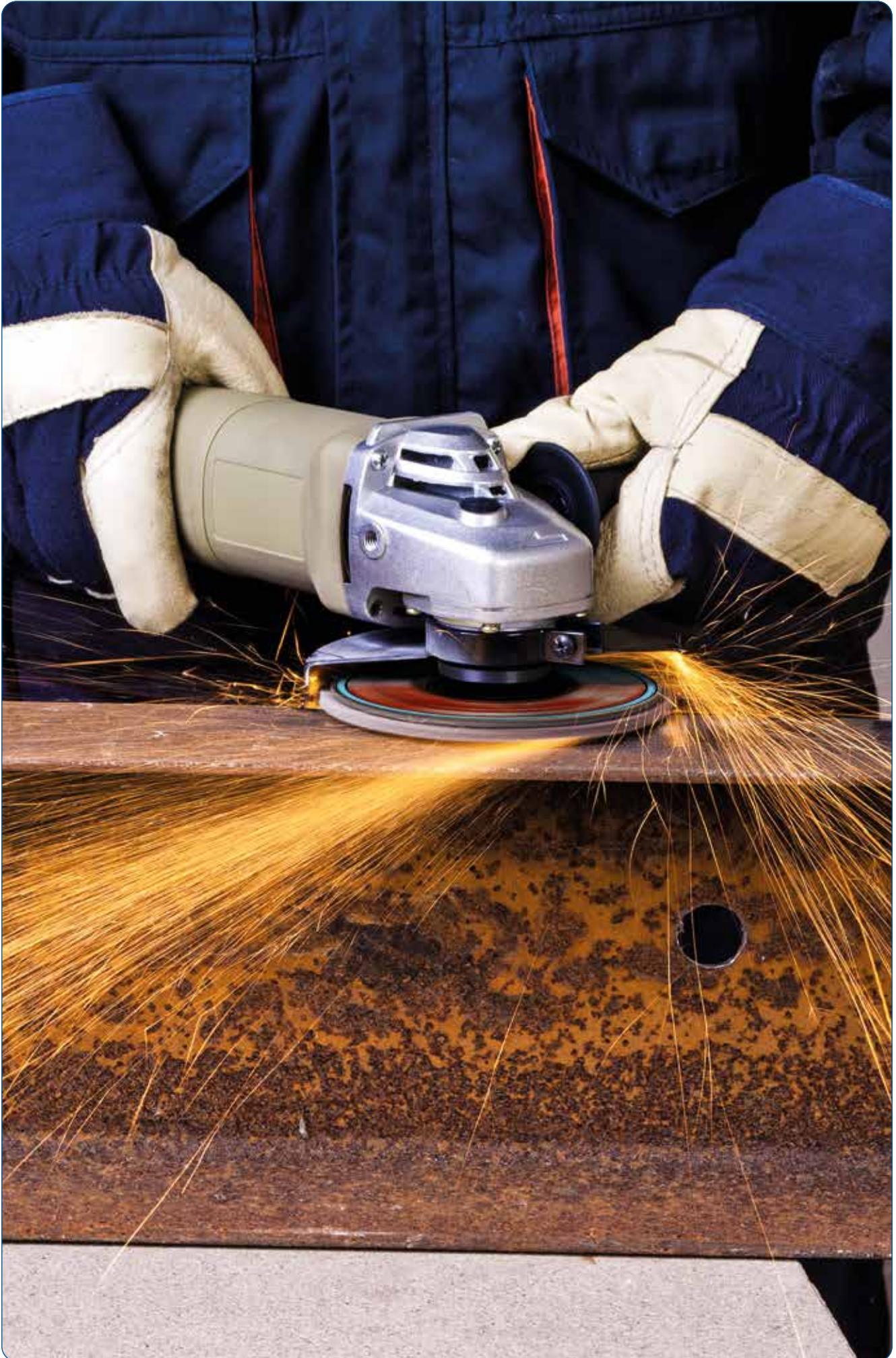
Stock Removal ●●●●○  
Lifetime ●●●○○

- Product Code : ZXR11
- Abrasive : Zirconia
- Backing : X Heavy Cotton Cloth
- Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).
- Density : More flap version High Density flap discs are preferred in aggressive sanding of curved and wide surfaces.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	115x22.23		-	-	982210	-	982220	982225	-	982235	10	120
	125x22.23	80	-	-	982450	-	982460	982465	-	982475	10	120
	180x22.23		-	-	930748	-	930753	930754	-	930756	10	80
 Conical	115x22.23		-	-	982250	-	982260	982265	-	982275	10	120
	125x22.23	80	-	-	982490	-	982500	982505	-	982515	10	120
	180x22.23		-	-	930770	-	930772	930773	-	930775	10	80









# Universal Line Flap Discs





**ZR** *Universal Line*  
Zirconia **SD** Standard Density



Stock Removal ●●●●○  
Lifetime ●●●○

Product Code : ZXPR11  
 Abrasive : Zirconia  
 Backing : X Heavy Poly-Cotton Cloth  
 Application : Multipurpose aggressive grinding for steel, stainless steel (inox) and metal.  
 Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	100x16		-	-	930130	-	930140	930150	-	952575	10	120
	115x22.23		-	958978	930160	958984	930170	930180	958973	930710	10	120
	125x22.23	80	-	959182	930190	-	930200	930210	-	930720	10	120
	150x22.23		-	-	931920	-	-	-	-	-	10	80
	180x22.23		-	959311	930220	959316	930230	930240	-	930730	10	80
 Conical	100x16		-	-	930370	-	930380	930390	-	930660	10	120
	115x22.23		-	932000	930400	959091	930410	930420	-	930670	10	120
	125x22.23	80	-	959249	930430	959257	930440	930450	959243	930680	10	120
	150x22.23		-	-	931280	-	931250	931260	-	931290	10	80
	180x22.23		-	932140	930460	959352	930470	930480	-	930690	10	80



## Premium Line Flap Discs



**AO** Premium Line  
Aluminum Oxide **SD** Standard Density



Stock Removal ●●●○○○  
Lifetime ●●●○○○



Product Code : AXPR11  
Abrasive : Aluminum Oxide  
Backing : X Heavy Poly-Cotton Cloth  
Application : Multipurpose aggressive grinding for steel and metal.  
Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	36	40	60	80	100	120	Box	M. Box
 Flat	100x16	80	-	982850	982860	982865	-	982875	10	120
	115x22.23		982925	982930	982940	982945	982950	982955	10	120
	125x22.23		983005	983010	983020	983025	983030	983035	10	120
	180x22.23		983165	983170	983180	983185	983190	983195	10	80
 Conical	100x16	80	-	930250	930260	982905	-	930560	10	120
	115x22.23		982965	982970	982980	982985	982990	982995	10	120
	125x22.23		983045	983050	983060	983065	983070	983075	10	120
	180x22.23		983205	983210	983220	983225	932120	983235	10	80



\*Plastic Backing Pad option is available.



Premium Line Flap Discs





**100% Premium Line**  
**ZR SD Standard Density**  
 Zirconia



Stock Removal ●●●●○  
 Lifetime ●●●●○

Product Code : ZXPR22  
 Abrasive : 100% Zirconia  
 Backing : Y Poly-Cotton Cloth  
 Application : Weld grinding, deburring and blending applications for metal, steel and stainless steel (Inox).  
 Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	100x16	80	-	-	983250	-	983260	983265	-	983275	10	120
	115x22.23		-	983405	983410	983415	983420	983425	983430	983435	10	120
	125x22.23		-	983565	983570	983575	983580	983585	983590	983595	10	120
	150x22.23		-	-	983730	-	983740	983745	-	983755	10	80
	180x22.23		-	983885	983890	983895	983900	983905	983910	983915	10	80
 Conical	100x16	80	-	-	983290	-	983300	983305	-	983315	10	120
	115x22.23		-	983445	983450	983455	983460	983465	983470	983475	10	120
	125x22.23		-	983605	983610	983615	983620	983625	983630	983635	10	120
	150x22.23		-	-	983770	-	983780	983785	-	983795	10	80
	180x22.23		-	983925	983930	983935	983940	983945	983950	983955	10	80



Premium Line Flap Discs

**100% Premium Line**  
**ZR HD** High Density  
 Zirconia



Stock Removal ●●●●●●  
 Lifetime ●●●●○



Iron and sulfur less than 0.1%.

Product Code : ZXPR22  
 Abrasive : 100% Zirconia  
 Backing : Y Poly-Cotton Cloth  
 Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).  
 Density : More flap version High Density flap discs are preferred in aggressive sanding of curved and wide surfaces.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
Flat	115x22.23		-	-	983490	-	983500	983505	-	983515	10	120
	125x22.23	80	-	-	931070	-	983660	983665	-	983675	10	120
	180x22.23		-	-	983970	-	983980	983985	-	983995	10	80
Conical	115x22.23		-	-	983530	-	983540	983545	-	983555	10	120
	125x22.23	80	-	-	983690	-	983700	931210	-	983715	10	120
	180x22.23		-	-	984010	-	984020	984025	-	984035	10	80



\*Plastic Backing Pad option is available.



Premium Line Flap Discs





**CE** Premium Line  
Ceramic **SD** Standard Density



Stock Removal ●●●●●●  
Lifetime ●●●●●●

- Product Code : CEY51
- Abrasive : Ceramic
- Backing : Y Poly-Cotton Cloth
- Application : Suitable for hand tools operated with high pressure for stainless steel (Inox) and high alloy steel.
- Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	36	40	60	80	Box	M. Box
 Flat	100x16	80	984045	984050	984060	984065	10	120
	115x22.23		984125	984130	984140	984145	10	120
	125x22.23		984205	984210	984220	984225	10	120
	150x22.23		984285	984290	984300	984305	10	80
	180x22.23		984365	984370	984380	984385	10	80
 Conical	100x16	80	984085	984090	984100	984105	10	120
	115x22.23		984165	984170	984180	984185	10	120
	125x22.23		984245	984250	984260	984265	10	120
	150x22.23		984325	984330	984340	984345	10	80
	180x22.23		984405	984410	984420	984425	10	80









# Fibre Discs










Karbosan fibre discs are offered in various types to meet different application needs.





## Product Category Information

Karbosan fibre discs are offered in various types to meet different application needs. Fibre discs are served with a total of 6 different types of Silicon Carbide, Aluminum Oxide, Zirconium and Ceramic abrasives. Generally from 16 grit to 120 grit, from 100 mm diameter to 230 mm diameter, with various types such as 4 slotted, 8 slotted, slitted, Round Hole and Depressed Round Hole.

Abrasive	Product Code	Backing	Feature	
<b>AO ECO</b> Aluminum Oxide	AWER11	Vulcanized Fibre	Ideal for sanding metal, aluminium, zamak and wood materials, having economic vulcanized fibre backing and Aluminum Oxide abrasive grains.	
<b>AO</b> Aluminum Oxide	AWR11		Ideal for sanding low alloy steel, stainless steel (Inox), aluminium, zamak and wood materials, having standard vulcanized fibre backing and aggressive Aluminum Oxide abrasive grains.	
<b>ZR</b> Zirconia	ZWR11		Ideal for sanding low alloy steel, stainless steel (Inox), high alloy steel, heat resistant steel and cast iron materials having standard vulcanized fibre backing and aggressive Zirconia abrasive grains.	
<b>ZR TOPSIZE</b> Zirconia	ZWR51		Ideal for sanding stainless steel (Inox), high alloy steel and heat resistant steel and cast iron materials, having standard vulcanized fibre backing and aggressive Zirconia abrasive grains, also heat absorbant Topsize.	
<b>CE TOPSIZE</b> Ceramic	CER51		Ideal for sanding stainless steel (Inox), high alloy steel and heat resistant steel and cast iron materials, having thicker vulcanized fibre backing and aggressive Ceramic abrasive grains, also heat absorbant Topsize.	



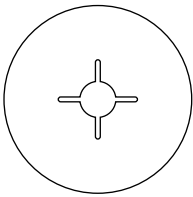
# Application and Performance Table

- Perfect
- Suitable
- Possible

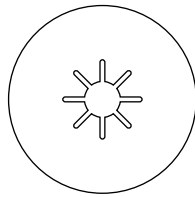
Abrasive	Wood	Low Alloy Steel	Stainless Steel / Inox	High Alloy Steel / Heat Resistant Steel	Aluminium / Zamak	Brass / Copper / Non Ferrous Metal	Cast Iron	Glass / Stone / Marble / Vitrified	Performance
<b>AO<sup>ECO</sup></b> Aluminum Oxide <i>AWER11</i>	●●●	●●	●	●	●●●	●		Stock Removal: ●●●○○ Lifetime: ●●●○○	
<b>AO</b> Aluminum Oxide <i>AWR11</i>	●●●	●●●	●●	●●	●●●	●		Stock Removal: ●●●○○ Lifetime: ●●●○○	
<b>ZR</b> Zirconia <i>ZWR11</i>		●●●	●●●	●●●	●		●●	Stock Removal: ●●●●○ Lifetime: ●●●●○	
<b>ZR<sup>TOPSIZE</sup></b> Zirconia <i>ZWR51</i>		●●	●●●	●●●	●		●●●	Stock Removal: ●●●●○ Lifetime: ●●●●●	
<b>CE<sup>TOPSIZE</sup></b> Ceramic <i>CER51</i>		●●	●●●	●●●	●●		●●●	Stock Removal: ●●●●● Lifetime: ●●●●●	

## Types and Diameters

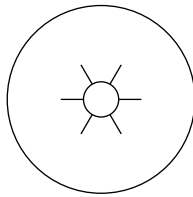
### 4 Slotted



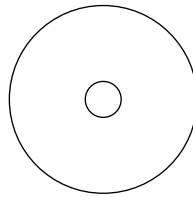
### 8 Slotted









### 6 Slitted



### Round Hole



### Diameters

<p>100 x 16 mm 4" x 5/8"</p>  <p>Max. 80 m/s 15.300 rpm</p>	<p>115 x 22.23 mm 4½" x 7/8"</p>  <p>Max. 80 m/s 13.300 rpm</p>	<p>125 x 22.23 mm 5" x 7/8"</p>  <p>Max. 80 m/s 12.250 rpm</p>	<p>150 x 22.23 mm 6" x 7/8"</p>  <p>Max. 80 m/s 10.200 rpm</p>	<p>180 x 22.23 mm 7" x 7/8"</p>  <p>Max. 80 m/s 8.500 rpm</p>	<p>230 x 22.23 mm 9" x 7/8"</p>  <p>Max. 80 m/s 6.650 rpm</p>
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# Product Types

**AO<sup>ECO</sup>**  
Aluminum Oxide

**Product Code**

AWER11

**Application Area**

Wood, Low Alloy Steel, Aluminium, Zamak.

**AO**  
Aluminum Oxide

**Product Code**

AWR11

**Application Area**

Wood, Low Alloy Steel, Aluminium, Zamak, Stainless Steel (Inox).

**CE TOPSIZE**  
Ceramic

**Product Code**

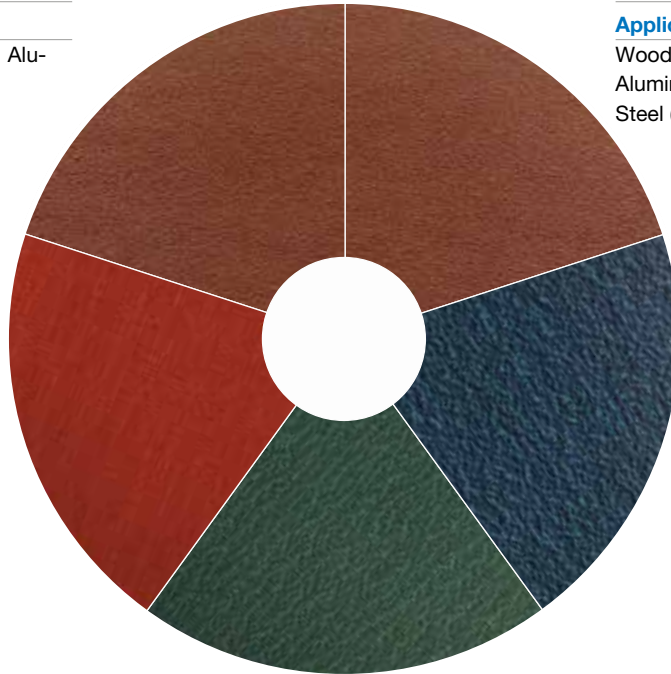
CER51

**Application Area**

Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Cast Iron.

**Feature**

Topsize (Coating for heat absorbant)



**ZR**  
Zirconia

**Product Code**

ZWR11

**Application Area**

Low Alloy Steel, Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Cast Iron.

**ZR TOPSIZE**  
Zirconia

**Product Code**

ZWR51

**Application Area**

Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Cast Iron.

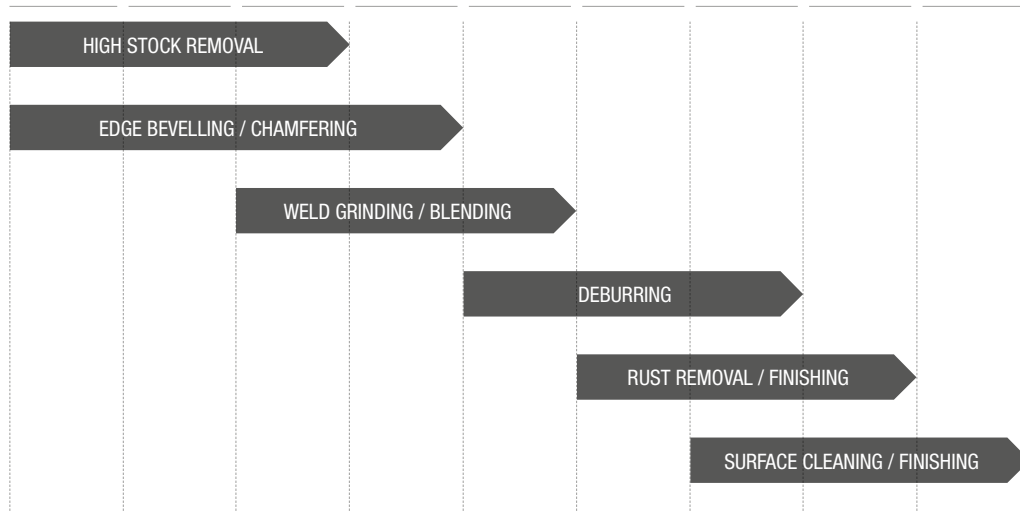
**Feature**

Topsize (Coating for heat absorbant)

## Grit Size Application Guide

Coarse Grit Fine Grit

16      24      36      40      50      60      80      100      120

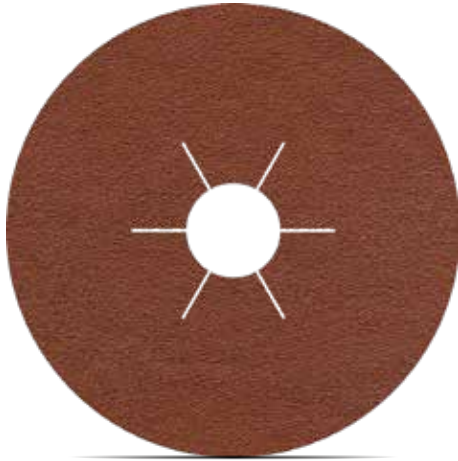


## Product Backside Information





# Aluminum Oxide Eco Fibre Discs



## AO<sup>ECO</sup>

Aluminum Oxide

Stock Removal ●●●○○○  
Lifetime ●●●○○○

Product Code : AWER11  
Abrasive : Aluminum Oxide  
Backing : Vulcanized Fibre  
Grit Range : 16-120  
Application : Wood, Non Ferrous Metals, Aluminium, Zamak

Type	Dimension (mm)	16	24	36	40	50	60	80	100	120	Box	M. Box
4 Slotted	100x16	985789	985795	985801	985806	985812	985818	985824	985830	985836	50	200
	115x22.23	985790	985796	903897	985807	985813	985819	985825	985831	985837	50	200
	125x22.23	985791	985797	985802	985808	985814	985820	985826	985832	985838	50	200
	150x22.23	985792	985798	985803	985809	985815	985821	985827	985833	985839	50	200
	180x22.23	985793	985799	985804	985810	985816	985822	985828	985834	985840	50	200
230x22.23	985794	985800	985805	985811	985817	985823	985829	985835	985841	50	200	
6 Slitted	100x16	985896	985902	985908	985914	985920	985926	985932	985938	985944	50	200
	115x22.23	985897	985903	985909	985915	985921	985927	985933	985939	985945	50	200
	125x22.23	985898	985904	985910	985916	985922	985928	985934	985940	985946	50	200
	150x22.23	985899	985905	985911	985917	985923	985929	985935	985941	985947	50	200
	180x22.23	985900	985906	985912	985918	985924	985930	985936	985942	985948	50	200
230x22.23	985901	985907	985913	985919	985925	985931	985937	985943	985949	50	200	
Round Hole	100x16	985950	985955	985959	985963	985968	985974	985978	985982	985986	50	200
	115x22.23	985952	985957	985961	985965	985971	985976	985980	985984	985988	50	200
	125x22.23	985951	985956	985960	985964	985970	985975	985979	985983	985987	50	200
	150x22.23	985952	985957	985961	985965	985971	985976	985980	985984	985988	50	200
	180x22.23	985953	985958	985962	985966	985972	985977	985981	985985	985989	50	200
230x22.23	985954	985958	985962	985966	985972	985977	985981	985985	985989	50	200	

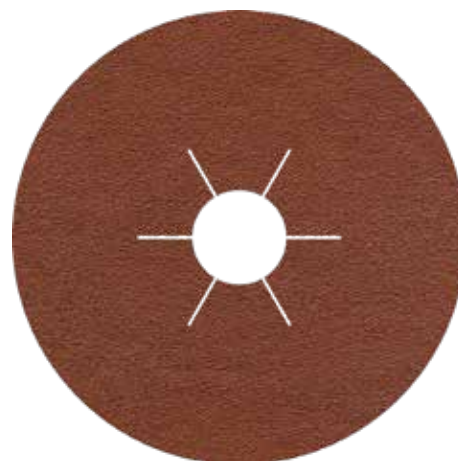


# Aluminum Oxide Fibre Discs




# AO

Aluminum Oxide

Stock Removal ●●●○○○  
Lifetime ●●●○○○



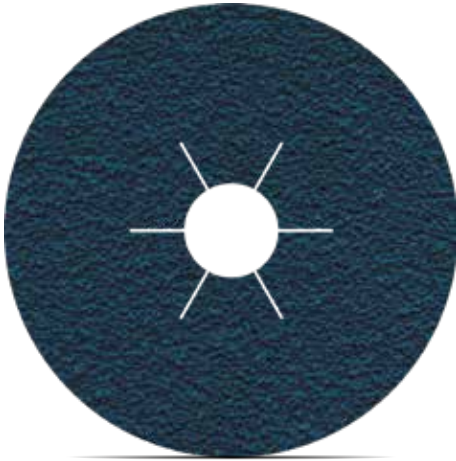
Product Code : AWR11  
 Abrasive : Aluminum Oxide  
 Backing : Vulcanized Fibre  
 Grit Range : 16-400  
 Application : Wood, Low Alloy Steel, Aluminium, Zamak, Stainless Steel (Inox)

Type	Dimension (mm)	16	24	36	40	50	60	80	120	150	180	280	320	400	Box	M. Box
 4 Slotted	100x16	984500	958101	958102	984507	958103	984512	984515	984521	984524	984528	984541	984547	984552	50	200
	115x22.23	958133	958134	958135	958136	958137	958138	958139	958141	958142	958143	984542	958146	958147	50	200
	125x22.23	904957	958209	958210	958211	912822	958212	958213	958215	984525	984529	984543	984548	984553	50	200
	150x22.23	984501	984503	984505	984508	984510	984513	984516	984522	984526	984530	984544	984549	984554	50	200
	180x22.23	910577	912824	958271	958272	912113	958273	958274	958276	958277	984531	984545	984550	984555	50	200
	230x22.23	984502	984504	984506	984509	984511	984514	984517	984523	984527	984532	984546	984551	984556	50	200
 6 Slitted	100x16	980141	980142	980143	980144	912688	980145	980146	980147	984655	984657	984667	984673	984676	50	200
	115x22.23	922310	922320	922330	922340	922350	922360	922370	922380	980209	980210	984668	980213	984677	50	200
	125x22.23	922390	922400	922410	922420	922430	922440	922450	922460	958361	958362	984669	958365	984678	50	200
	150x22.23	958385	958386	958387	958388	984647	958389	958390	958391	922250	984658	984670	984674	984679	50	200
	180x22.23	922470	922480	922490	910195	922510	968132	922530	922540	958439	922260	984671	958441	958442	50	200
	230x22.23	984643	984644	984645	984646	984648	984649	984650	984654	984656	984659	984672	984675	984680	50	200
 Round Hole	100x16	966766	958475	958476	958477	958478	958479	958480	958482	958483	958484	984687	958485	984692	50	200
	115x22.23	921010	921020	921030	921040	921050	921060	921070	921080	980014	958551	907571	958554	907573	50	200
	125x22.23	921090	921100	921110	921120	921130	921140	921150	921160	966800	958634	908128	958636	908130	50	200
	150x22.23	966813	958642	958643	966817	966819	958644	966822	958646	958647	958648	984688	984690	984693	50	200
	180x22.23	921170	921180	921190	921200	921210	921220	921230	921240	958706	958707	908279	958710	908281	50	200
	230x22.23	958767	958768	958769	958770	958771	958772	966866	958774	958775	958776	984689	984691	984694	50	200





## Zirconia Fibre Discs



# ZR

Zirconia

Stock Removal ●●●●○  
Lifetime ●●●●○

Product Code : ZWR11  
Abrasive : Zirconia  
Backing : Vulcanized Fibre  
Grit Range : 24-120  
Application : Low Alloy Steel, Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Aluminium, Zamak, Cast Iron

Type	Dimension (mm)	24	36	40	60	80	100	120	Box	M. Box
4 Slotted	100x16	985095	985098	985101	985110	985114	985118	985122	50	200
	115x22.23	922652	958154	958155	958156	958164	958158	904772	50	200
	125x22.23	923223	958219	958220	958221	958222	968128	985123	50	200
	150x22.23	985096	985099	985102	985111	985115	985119	985124	50	200
	180x22.23	904446	904447	985103	985112	985116	985120	985125	50	200
	230x22.23	985097	985100	985104	985113	985117	985121	985126	50	200
6 Slitted	100x16	980148	980149	985181	980151	980152	967502	980153	50	200
	115x22.23	922020	922030	922040	922060	922070	980214	922080	50	200
	125x22.23	922100	922110	922120	922140	922150	958366	922160	50	200
	150x22.23	958392	905699	958393	958394	903530	903529	958395	50	200
	180x22.23	922180	922190	922200	922220	922230	958443	922240	50	200
	230x22.23	985179	985180	985182	985184	985185	985186	985187	50	200
Round Hole	100x16	958496	958497	966780	958499	958500	966779	958501	50	200
	115x22.23	921620	921630	921640	921660	921670	958556	921680	50	200
	125x22.23	921700	921710	921720	921740	921750	966802	921760	50	200
	150x22.23	958652	958653	966841	966843	966844	966839	966840	50	200
	180x22.23	921780	921790	921800	921820	921830	958714	921840	50	200
	230x22.23	958780	958781	966886	966888	966889	966884	966885	50	200



# Zirconia Topsize Fibre Discs



Stock Removal ●●●●○  
 Lifetime ●●●●●



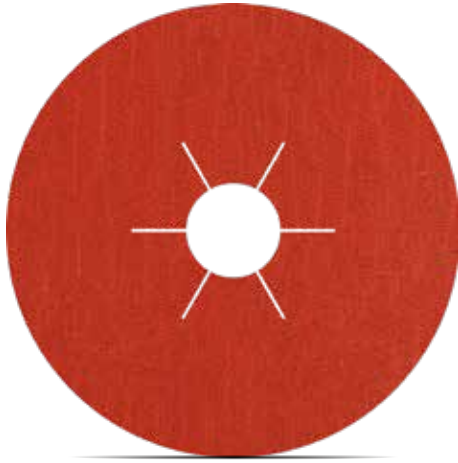
Product Code : ZWR51  
 Abrasive : Zirconia  
 Backing : Vulcanized Fibre  
 Grit Range : 24-120  
 Application : Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Cast Iron  
 Feature : Topsize (Coating for Heat Absorbant)

Type	Dimension (mm)	24	36	40	50	60	80	120	Box	M. Box
4 Slotted	100x16	985240	985244	985248	985253	985259	985264	985275	50	200
	115x22.23	904448	958159	914822	985254	914824	914826	914828	50	200
	125x22.23	985241	985245	985249	985255	985260	985265	985276	50	200
	150x22.23	985242	985246	985250	985256	985261	985266	985277	50	200
	180x22.23	904445	904166	985251	985257	985262	985267	985278	50	200
	230x22.23	985243	985247	985252	985258	985263	985268	985279	50	200
6 Slitted	100x16	985336	980154	985341	985344	980155	980156	980157	50	200
	115x22.23	923966	923967	923968	980217	923969	923970	923972	50	200
	125x22.23	923974	923975	923976	906076	923977	923978	923980	50	200
	150x22.23	985337	985339	985342	985345	966205	906369	985353	50	200
	180x22.23	923982	923983	923984	985346	923985	923986	923988	50	200
	230x22.23	985338	985340	985343	985347	985348	985349	985354	50	200
Round Hole	100x16	966773	966774	966775	966776	966777	966778	966772	50	200
	115x22.23	924059	924060	924061	966787	924062	924063	924065	50	200
	125x22.23	924067	924068	924069	966801	924070	924071	924073	50	200
	150x22.23	966834	966835	966836	966837	966201	966838	966833	50	200
	180x22.23	924075	924076	924077	966850	924078	924079	924081	50	200
	230x22.23	966878	966879	966880	966881	966882	966883	966877	50	200





# Ceramic Fibre Discs



**CE** TOPSIZE  
Ceramic

Stock Removal ●●●●●  
Lifetime ●●●●●

Product Code : CER51  
 Abrasive : Ceramic  
 Backing : Vulcanized Fibre  
 Grit Range : 24-120  
 Application : Stainless Steel (Inox), High Alloy Steel, Heat Resistant Steel, Cast Iron  
 Feature : Topsize (Coating for Heat Absorbant)

Type	Dimension (mm)	24	36	40	50	60	80	100	120	Box	M. Box
4 Slotted	100x16	985417	985420	985423	985428	985434	985436	985440	985445	50	200
	115x22.23	907330	958160	985424	985429	903459	907331	985441	914818	50	200
	125x22.23	907332	968421	920272	985430	968422	906088	912823	905984	50	200
	150x22.23	985418	985421	985425	985431	906370	985437	985442	985446	50	200
	180x22.23	930599	903460	985426	985432	903461	985438	985443	985447	50	200
	230x22.23	985419	985422	985427	985433	985435	985439	985444	985448	50	200
6 Slitted	100x16	985505	966342	985508	985510	905023	905706	985514	905707	50	200
	115x22.23	906257	980218	922199	910118	980219	904785	911902	905377	50	200
	125x22.23	904846	958368	911904	911906	958369	904847	911908	905708	50	200
	150x22.23	906189	966415	911914	911916	911918	911923	911925	911927	50	200
	180x22.23	905737	958444	909502	907377	958445	905709	911929	905710	50	200
	230x22.23	985506	985507	985509	985511	985512	985513	985515	985516	50	200
Round Hole	100x16	985523	903806	985527	985530	903807	985535	985538	985541	50	200
	115x22.23	924083	924084	924085	924318	924086	924087	924088	924089	50	200
	125x22.23	924091	924092	924093	985531	924094	924095	924096	924097	50	200
	150x22.23	985524	985526	985528	985532	908939	985536	985539	985542	50	200
	180x22.23	924099	924100	924101	914989	924102	924103	924104	924105	50	200
	230x22.23	985525	922447	985529	985533	985534	985537	985540	985543	50	200







# Hook & Loop Discs



Karbosan hook & loop discs are offered in various types to meet different application needs.





## Product Category Information

Karbosan hook & loop discs are offered in various types to meet different application needs. Hook & loop discs are served with different types of Silicon Carbide, Aluminum Oxide, Zirconium, Ceramic and Compact Aluminum Oxide abrasives, from 24 grit to 2000 grit, from 100mm diameter to 230mm diameter, with different hole types.

Category	Abrasive	Product Code	Feature	
Polyester Film	<b>AO</b> Aluminum Oxide	AHR31	Ideal for sanding various types of surfaces in automotive, paint, marine and stainless steel sectors. Polyester film backing and Aluminum Oxide abrasive grains, also with anti-clogging Stearate and semi open coating. Suitable for dry and wet applications. Tear resistant.	
C Paper	<b>AO</b> Aluminum Oxide	ACR31	Ideal for sanding undercoated, painted and varnished surfaces in wood, automotive, paint and marine sectors. C weight paper backing and Aluminum Oxide abrasive grains, also with anti-clogging Stearate and open coating.	
F Paper	<b>AO</b> Aluminum Oxide	AFR71	Ideal for sanding wood, low alloy steel and stainless steel (Inox) materials, having F weight paper backing and Aluminum Oxide abrasive grains, also antistatic and closed coating.	
	<b>SC</b> Silicon Carbide	CFR91	Ideal for sanding glass, stone, granite, ceramic, wood, aluminium, zamak, brass, copper and non ferrous metals, having F weight paper backing and Silicon Carbide abrasive grains, also antistatic and semi-open coating.	
	<b>ZR</b> Zirconia	ZFR91	Ideal for sanding low alloy steel, stainless steel (Inox), high alloy steel, aluminium, zamak and wood materials, having F weight paper backing and Zirconia abrasive grains, also antistatic and semi-open coating.	
	<b>CE</b> Ceramic	CEFR91	Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak and wood materials, having F weight paper backing and Ceramic abrasive grains, also antistatic and semi-open coating.	
X Cotton Cloth	<b>AO</b> Aluminum Oxide	AXOP21	Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non ferrous metals, having X weight cotton cloth backing and Aluminum Oxide abrasive grains, also semi-open coating.	
	<b>ZR</b> Zirconia	ZXR11	Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak and wood materials, having X weight cotton cloth backing and Zirconia abrasive grains, also closed coating.	
YY Polyester Cloth	<b>AO</b> Aluminum Oxide	AYXR11	Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non ferrous metals, having YY weight polyester cloth backing and Aluminum Oxide abrasive grains, also closed coating.	
	<b>ZR</b> Zirconia	ZYYR11	Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak, cast iron and wood materials, having YY weight polyester cloth backing and Zirconia abrasive grains, also closed coating.	
	<b>CE</b> Ceramic	CEYYR21	Ideal for sanding wood, brass, copper and non ferrous metals, having YY weight polyester cloth backing and Ceramic abrasive grains, also semi-open coating.	
	<b>AG</b> Compact Aluminum Oxide	AGYYR21	Ideal for polishing and finishing low alloy steel, stainless steel, high alloy steel and heat resistant steel, having YY weight polyester cloth backing and Compact Aluminum Oxide abrasive grains, also semi-open coating.	
	<b>AG</b> Compact Aluminum Oxide	AGYYR24	Ideal for polishing and finishing low alloy steel, stainless steel, high alloy steel and heat resistant steel, having YY weight polyester cloth backing and Compact Aluminum Oxide abrasive grains, also semi-open coating.	

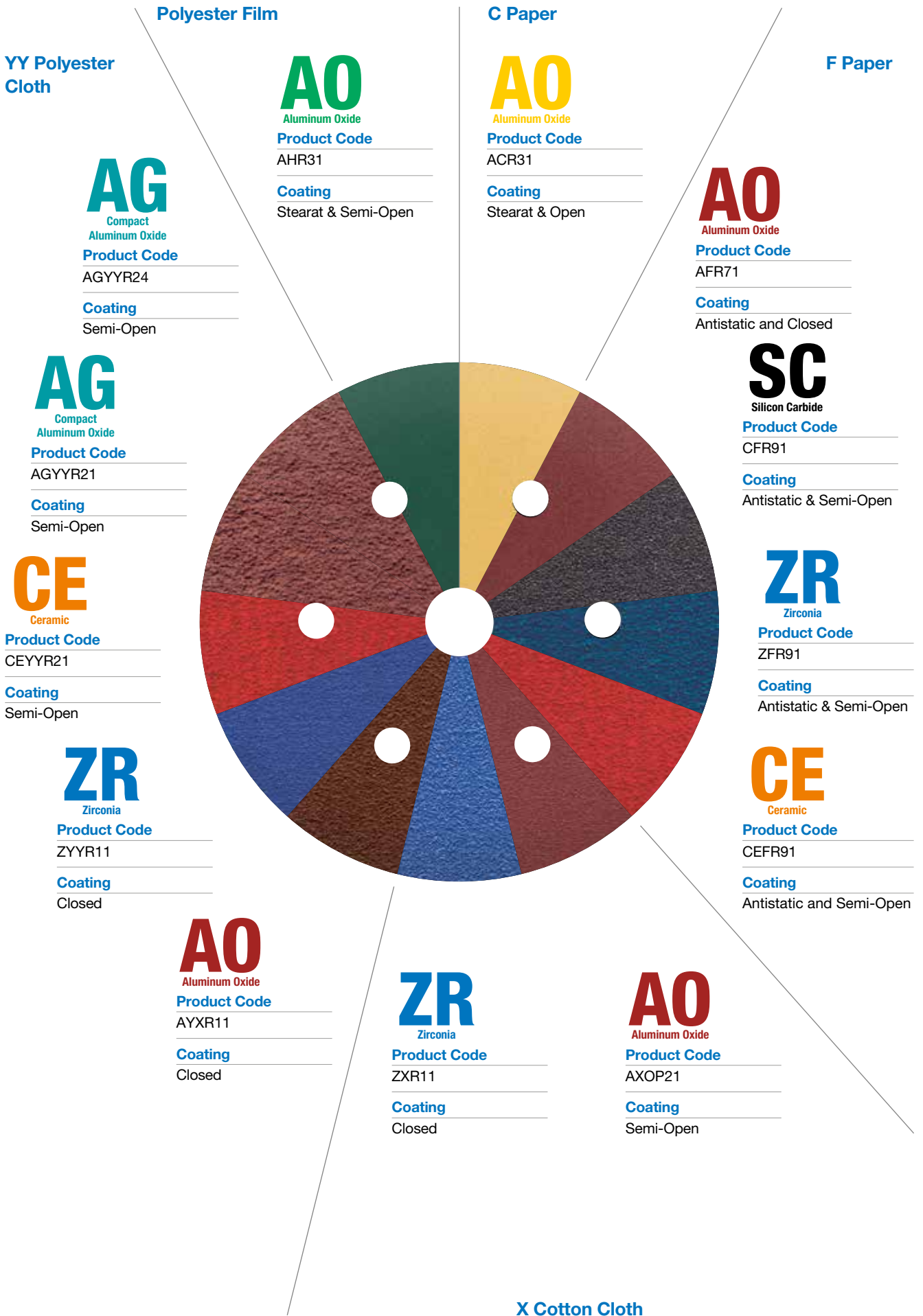
# Application and Performance Table

- Perfect
- Suitable
- Possible

































Category	Abrasive	Wood	Low Alloy Steel	Stainless Steel / Inox	High Alloy Steel / Heat Resistant Steel	Aluminium / Zamak	Brass / Copper / Non Ferrous Metal	Paint / Varnish / Lacquer	Plastic / Rubber / Leather	Cast Iron	Glass / Stone / Granite / Vitrified
Polyester Film	<b>AO</b> Aluminum Oxide <i>AHR31</i>	●	●●	●●●	●	●	●●	●●●			
	<b>AO</b> Aluminum Oxide <i>ACR31</i>	●●●	●				●	●●●	●●●		
F Paper	<b>AO</b> Aluminum Oxide <i>AFR71</i>	●●●	●	●							
	<b>SC</b> Silicon Carbide <i>CFR91</i>	●●				●	●	●	●●●		●●●
	<b>ZR</b> Zirconia <i>ZFR91</i>	●	●●	●●	●	●					
	<b>CE</b> Ceramic <i>CEFR91</i>	●	●●	●●●	●●●	●					
X Cotton Cloth	<b>AO</b> Aluminum Oxide <i>AXOP21</i>	●●●	●	●		●	●	●	●		
	<b>ZR</b> Zirconia <i>ZXR11</i>	●	●●	●●●	●●	●					
YY Polyester Cloth	<b>AO</b> Aluminum Oxide <i>AYXR11</i>	●●●	●	●			●	●	●		
	<b>ZR</b> Zirconia <i>ZYYR11</i>	●	●●	●●●	●●●	●			●	●	
	<b>CE</b> Ceramic <i>CEYYR21</i>	●●●	●	●	●		●●	●●			
	<b>AO</b> Compact Aluminum Oxide <i>AGYYR21</i>		●●	●●●	●●●	●	●			●	
	<b>AO</b> Compact Aluminum Oxide <i>AGYYR24</i>		●●	●●●	●●●	●	●			●	



# Product Types

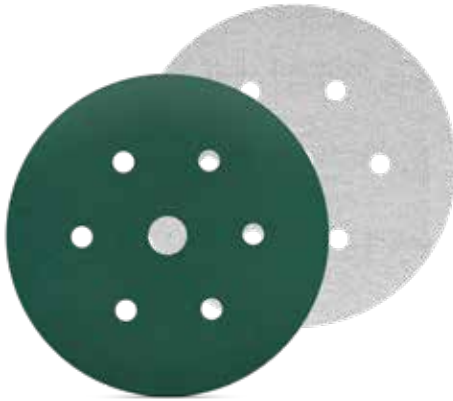


# Types and Diameters

Type No.	Type Icon	Disc Diameters	Hole Status	Hole in The Middle (mm)	Inner Hole Circle Diameters (mm)	Number of Hole in The Inner Hole Circle (piece)	Diameter of The Hole in The Inner Hole Circle (mm)	Outer Hole Circle Diameter (mm)	Number of Holes in The Outer Hole Circle (piece)	Diameter of The Holes in The Outer Hole Circle (mm)
T01		100 mm / 4"	No hole							
T02		115 mm / 4½"	No hole							
T03		125 mm / 5"	No hole							
T04		125 mm / 5"	8 holes		65	8	10			
T05		125 mm / 5"	9 holes	11	65	8	10			
T06		125 mm / 5"	9 holes	8	90	8	10			
T07		150 mm / 6"	No hole							
T08		150 mm / 6"	6 holes		80	6	10			
T09		150 mm / 6"	7 holes	18	80	6	10			
T10		150 mm / 6"	8 holes		65	8	10			
T11		150 mm / 6"	9 holes	18	120	8	9,5			
T12		150 mm / 6"	15 holes	17	80	6	9	120	8	9
T13		150 mm / 6"	17 holes	10	65	8	8	120	8	10
T14		150 mm / 6"	Star Shaped	22,3						
T15		178 mm / 7"	No hole							
T16		178 mm / 7"	No hole	22,3						
T17		180 mm / 7 1/64"	No hole							
T18		200 mm / 7 7/8"	No hole							
T19		225 mm / 8"	No hole							
T20		230 mm / 9"	No hole							
T21		406 mm / 16"	No hole							
T23		115 x 280 mm	No hole							
T24		80 x 80 x R135	No hole							
T25		81 x 133 - 8 x Ø10	8 holes							
T26		230 x 280 mm	No hole							
T27		200 mm / 7 7/8"	9 holes							
T28		90 mm / 3 ½"	No hole							
T29		77 mm / 3 1/16"	No hole							
T30		85 mm / 3 3/8"	No hole							
T31		140 mm / 5 ½"	No hole							
T32		125 mm / 5"	5 holes							
T34		140 mm / 5 ½"	Holes				30			



# Polyester Film Hook & Loop Discs

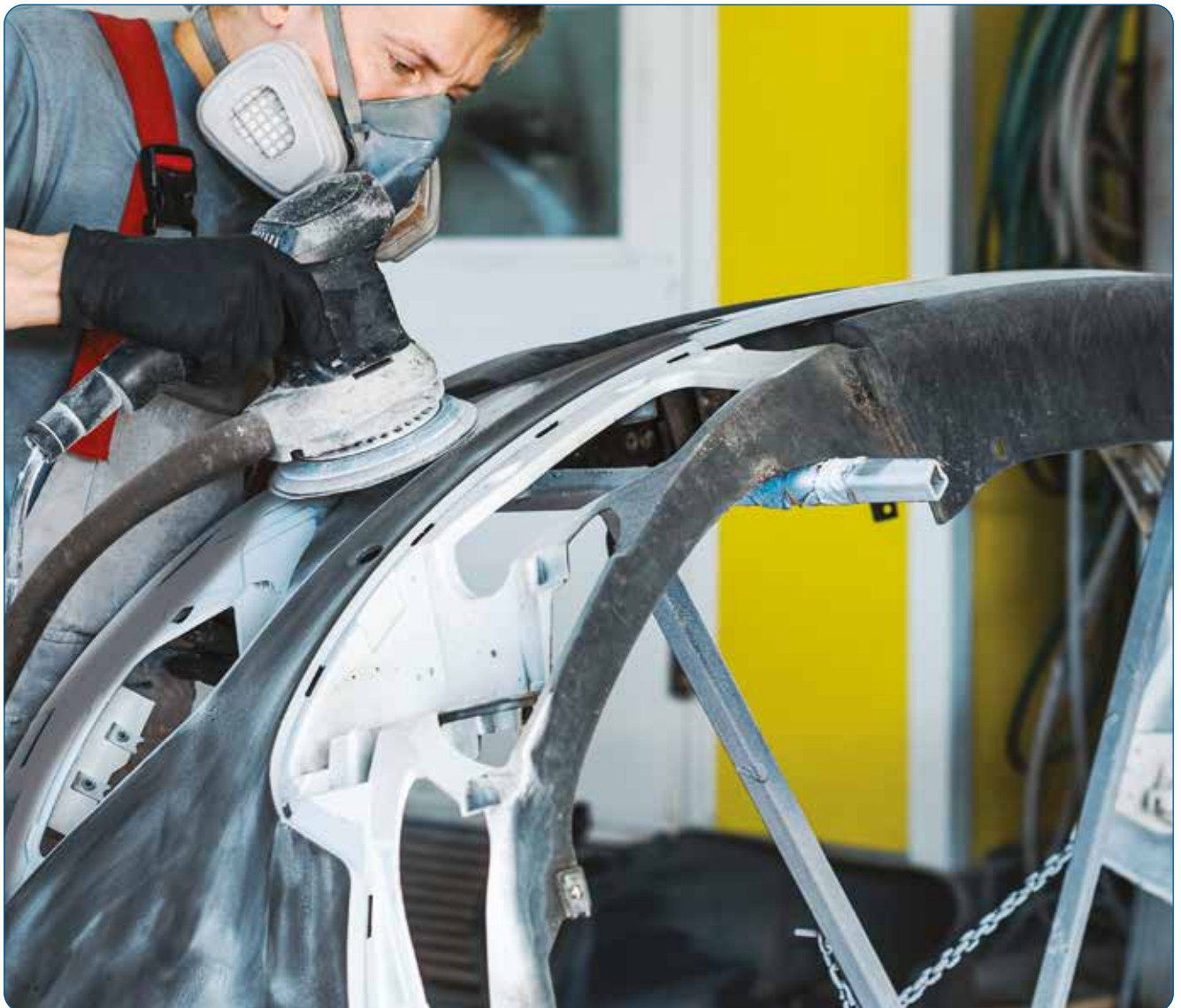


# AO

Aluminum Oxide

Product Code : AHR31  
 Abrasive : Aluminum Oxide  
 Backing : Polyester Film  
 Grit Range : 40-2000  
 Application : Ideal for sanding various types of surfaces in automotive, paint, marine and stainless steel sectors.  
 Feature : Stearate and semi-open coating.

Type	Dimension (mm)	40	60	80	100	120	150	180	220	240	280	320	400	500	600	800	1000	1200	1500	2000
	115	954450	954456	954460	954426	954430	954434	954436	954440	954442	954444	954446	954448	954452	954454	954458	954424	954428	954432	954438
No Hole	125	961607	961610	961612	006344	961597	006345	006346	961602	961603	996730	996731	961606	996732	994489	994490	995895	961596	994491	996729
	150	961623	961624	961626	961614	961616	961618	961619	961621	960451	961622	960452	960453	996860	960454	961625	961613	961615	961617	961620
6 Holes	150	996835	996839	961645	994487	961630	994488	961633	961635	961636	006343	961638	961639	996836	996838	961644	980392	961629	961631	961634
7 Holes	150	954413	954417	954421	954390	954394	954398	954400	954404	954406	954408	954422	954411	975000	954415	954419	954388	954392	954396	954402

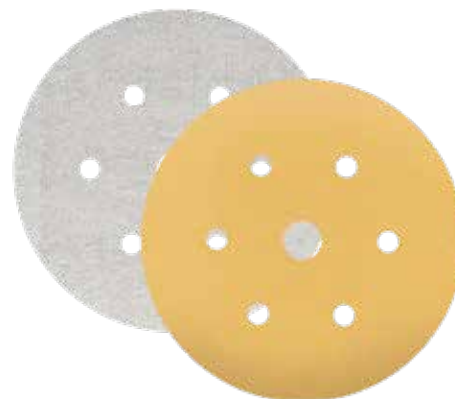


## C Paper Hook & Loop Discs

# AO

Aluminum Oxide

Product Code : ACR31  
 Abrasive : Aluminum Oxide  
 Backing : C Paper  
 Grit Range : 40-1200  
 Application : Ideal for sanding undercoated, painted and varnished surfaces in wood, automotive, paint and marine sectors.  
 Feature : Stearate and open coating.

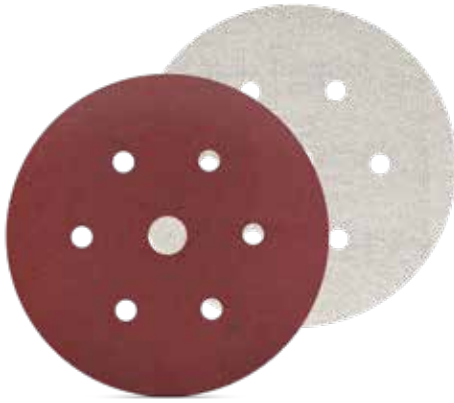


Type	Dimension (mm)	40	60	80	100	120	150	180	220	240	280	320	400	500	600	800	1000	1200
No Hole	115	961658	961661	961663	961648	961650	961651	961652	961653	961654	961655	961656	961657	996975	961660	996976	961647	006325
	125	003354	003356	961680	003349	961667	961668	003351	961670	003352	003353	961673	961674	003355	961677	961679	996977	003350
	150	961689	961691	961693	961682	961684	961685	961686	961687	960447	961688	960448	960449	003359	998944	961692	003357	003358
6 Holes	150	003774	961708	961710	961695	961697	961698	961699	961700	961701	003772	961703	961704	003775	003776	003777	003771	003773
7 Holes	150	954484	954490	954494	954464	954468	954471	954472	954474	954476	954478	954480	954482	954486	954488	954492	954462	954466





## F Paper Hook & Loop Discs



# AO

Aluminum Oxide

Product Code	: AFR71
Abrasive	: Aluminum Oxide
Backing	: F Paper
Grit Range	: 40-600
Application	: Ideal for sanding wood, low alloy steel and stainless steel (Inox) materials.
Feature	: Antistatic and closed coating.

Type	Dimension (mm)	40	60	50	80	100	120	150	180	220	240	280	320	400	500	600
No Hole	115	945332	945333	914736	944645	006277	945330	006278	006279	006280	924802	006281	006282	006283	006284	006285
	125	910868	910875	006460	910877	910857	910858	910859	910864	006457	910865	006458	910866	910867	006459	910869
	150	910917	910919	945928	910925	910904	910905	910906	910907	911648	910908	910909	910914	910915	945927	006683
	178	947547	932149	914786	932150	006906	947540	947541	947542	947543	947544	947545	947546	924505	947548	947549
	180	986213	003278	947585	003280	932326	004236	947578	932252	947579	003276	947581	947582	947583	947584	947586
	200	003277	003279	947614	003281	006855	006854	947606	947607	947608	947609	947610	947611	947612	947613	947615
	225	947634	947638	947636	914797	914795	914796	947627	947628	947629	947630	947631	947632	947633	947635	947637
	230	947646	947650	947648	914987	947639	914984	947640	947641	914986	947642	947643	947644	947645	947647	947649
6 Holes	150	911275	911276	945988	911277	911279	911282	911283	914766	911284	914767	914768	914769	914772	945987	945989
7 Holes	150	920829	923512	947158	923514	923508	920830	923510	006848	006849	947156	947157	006850	006851	006853	006852
8 Holes	125	920439	921506	006486	914745	923516	914743	923518	914744	923520	920435	006484	006847	920437	006485	006487
9 Holes	125	910889	910892	945893	910893	923257	910888	945885	945886	945887	945888	945889	945890	945891	945892	945894
	150	910986	910988	947507	910991	910975	910976	910977	910978	947504	910979	910983	910984	910985	947505	947508
15 Holes	150	005987	930929	945956	930933	945951	932832	945952	930934	945953	947655	945954	006841	930937	945955	945957
17 Holes	150	006512	003501	945974	003500	006513	006514	006515	006516	945970	006517	945971	006518	945972	945973	945975
Star Shaped Hole	178	921193	921195	947567	921197	921188	921191	947559	947560	947561	947562	947563	947564	947565	947566	947568

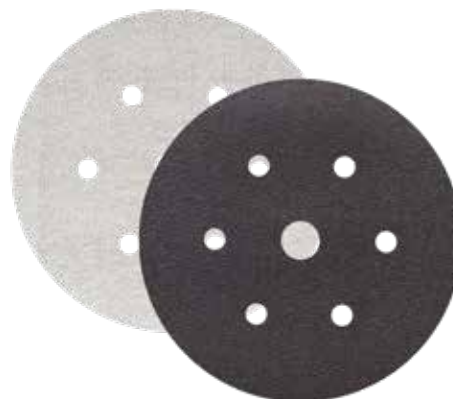


## F Paper Hook & Loop Discs

# SC

Silicon Carbide

- Product Code : CFR91
- Abrasive : Silicon Carbide
- Backing : F Paper
- Grit Range : 40-800
- Application : Ideal for sanding glass, stone, granite, ceramic, wood, aluminium, zamak, brass, copper and non ferrous metals.
- Feature : Antistatic and semi-open coating.

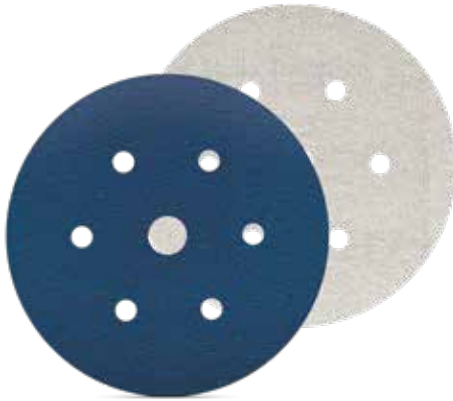


Type	Dimension (mm)	40	50	60	80	100	120	150	180	220	240	280	320	400	600	800
No Hole	115	931054	006897	931056	931057	006895	931058	005985	006272	005986	997714	997726	998910	006896	955971	978378
	125	003285	006312	944532	944533	006305	944534	006306	006307	006308	006928	997725	006309	006311	978381	978382
	150	914753	914754	914755	914756	914748	914749	945917	945918	945919	997715	997724	945920	945921	978387	978388
	178	922091	914784	913996	913998	914782	922088	947526	947527	947528	997716	997723	947529	006898	978399	978400
	200	006856	947605	006857	006858	006242	947598	947599	947600	947601	997718	997721	947602	947604	978401	978402
6 Holes	150	006872	006873	006874	006875	006869	006870	945976	945977	945978	997731	997736	945979	945980	978391	978392
7 Holes	150	946990	946991	947003	947004	946001	946436	946981	946982	946984	997753	997762	946985	946989	978393	978394
8 Holes	125	006865	006866	006867	006868	006862	006863	006479	006480	006481	954098	997777	006482	006483	978383	978384
	150	947493	947494	947495	947496	947485	947486	947487	947488	947489	997771	997776	947490	947492	978395	978396
9 Holes	125	945881	945882	945883	945884	006495	006496	006497	006498	006499	997782	997789	006500	945880	978385	978386
	150	914776	914777	914778	914779	914774	914775	947497	947498	947499	997783	997788	947500	947503	978397	978398
15 Holes	150	945947	945948	945949	945950	945941	945942	945943	945944	945945	997809	997792	006842	945946	978389	978390





## F Paper Hook & Loop Discs



# ZR

Zirconia

Product Code : ZFR91  
 Abrasive : Zirconia  
 Backing : F Paper  
 Grit Range : 36-400  
 Application : Ideal for sanding low alloy steel, stainless steel (Inox), high alloy steel, aluminium, zamak and wood materials.  
 Feature : Antistatic and semi-open coating.

Type	Dimension (mm)	36	40	50	60	80	100	120	150	180	220	240	280	320	400
No Hole	115	006903	921322	924193	915598	921323	006901	921324	923015	006287	006288	006289	006290	006291	006292
	125	924195	924196	924197	924198	922937	922925	922927	922929	922931	006462	922933	006463	922935	006464
	150	922691	922222	914757	914759	914762	922692	923205	923031	945931	945932	945933	945934	945935	945936
	178	923131	930453	914787	914788	914789	930455	930457	947552	947553	947554	947555	947556	947557	947558
	180	947595	932253	947597	932255	932256	947587	947588	947589	947590	947591	947592	947593	947594	947596
	200	947624	006247	947626	920392	930585	006846	930589	947617	947618	947619	947620	947622	947623	947625
6 Holes	150	945996	945998	945999	915368	923022	005988	923017	923019	945990	945991	945992	945994	945995	945997
7 Holes	150	947470	947473	947474	947475	947476	947461	947462	947463	947464	947465	947466	947468	947469	947472
9 Holes	125	945903	945905	945906	945907	945908	944635	945895	945896	945897	945898	945899	945901	945902	945904
	150	947517	923127	923129	922708	922710	922706	947509	947510	947511	947512	947513	947515	947516	947518
15 Holes	150	931049	922223	945969	924384	924385	924386	924387	945961	945962	945963	945964	945966	945967	945968
Star Shaped Hole	178	922225	915332	947577	915344	915334	924298	915330	947570	947571	947572	947573	947574	947575	947576

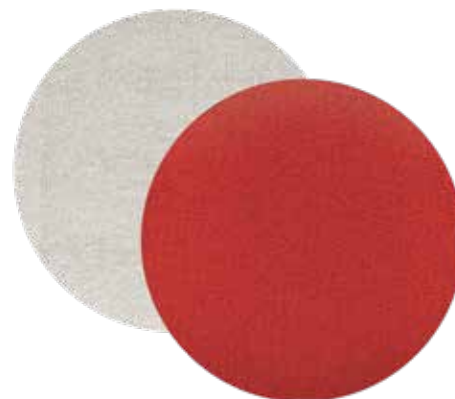


## F Paper Hook &amp; Loop Discs

# CE

Ceramic

Product Code : CEFR91  
 Abrasive : Ceramic  
 Backing : F Paper  
 Grit Range : 24-220  
 Application : Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak and wood materials.  
 Feature : Antistatic and semi-open coating.

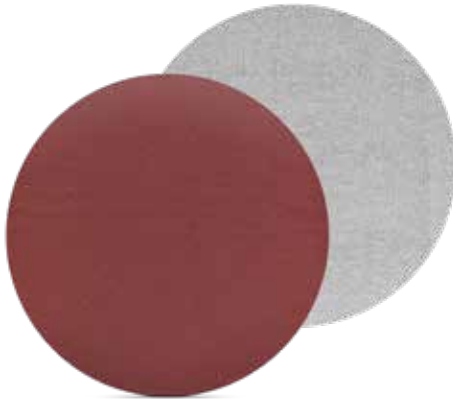


Type	Dimension (mm)	24	36	40	50	60	80	100	120	150	180	220
No Hole	115	006267	006268	006269	006270	006271	947651	006265	006266	006739	006740	006741
	125	006297	006298	006299	006300	006522	006521	006295	006296	952831	952832	952833
	150	945911	945912	945913	931777	945914	931003	945909	945910	952213	952214	952834
	178	947521	947522	947523	932797	947524	947525	947519	947520	952212	952211	952835
9 Holes	150	952801	952802	947711	947878	947879	947710	947880	947881	952215	952216	952803
15 Holes	150	952845	952846	947712	952847	952848	947713	952849	952850	952851	952852	952853
Star Shaped Hole	150	-	-	988272	988273	988274	988275	003663	988276	032396	032397	032398
	178	950946	950947	-	-	-	-	-	-	952854	952855	952856





## X Cotton Cloth Hook & Loop Discs



# AO

Aluminum Oxide

Product Code	: AXOP21
Abrasive	: Aluminum Oxide
Backing	: X Standard Cotton Cloth
Grit Range	: 16-400
Application	: Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non ferrous metals.
Feature	: Semi-open coating.

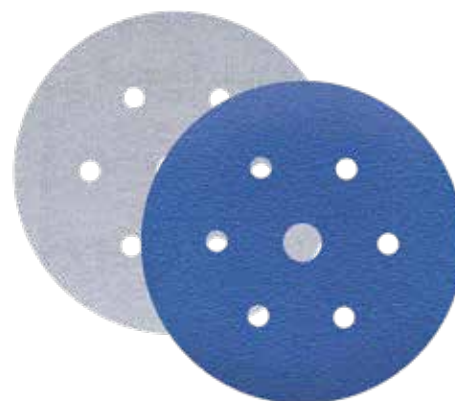
Type	Dimension (mm)	16	24	36	40	50	60	80	100	120	150	180	220	240	280	320	400
No Hole	115	991471	006911	006912	930865	991483	930866	930868	931059	931063	006257	006238	006274	006275	006276	006239	006240
	125	991472	961802	961803	006455	991484	006456	944535	006313	944536	006452	006844	944537	006453	006454	944538	006927
	150	991473	961804	961805	944857	991485	921429	944858	944859	944860	932344	945922	945923	945924	945925	945926	006945
	178	991474	961806	961807	947538	991486	914785	947539	947530	947531	947532	947533	947534	947535	947536	947537	991493
	200	997810	997811	997815	952028	997816	951357	951358	951359	951360	951362	951362	951549	951363	952029	952030	997817
	230	991476	991478	991481	952031	991488	951364	951365	951366	951367	951368	951369	952032	952033	952034	952035	991495
6 Holes	150	991499	961808	961809	944856	991576	923454	923456	947656	945981	945982	945983	006237	945984	945985	945986	991577



## X Cotton Cloth Hook &amp; Loop Discs

# ZR

Zirconia



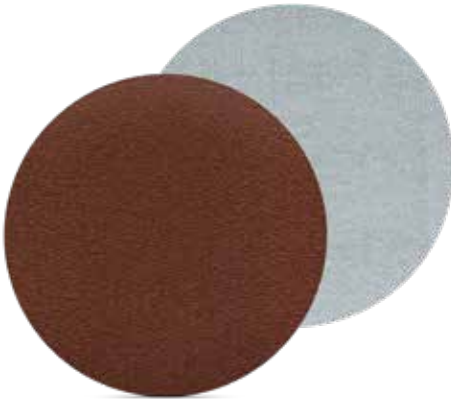
Product Code : ZXR11  
 Abrasive : Zirconia  
 Backing : X Heavy Cotton Cloth  
 Grit Range : 24-120  
 Application : Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak and wood materials.  
 Feature : Closed coating.

Type	Dimension (mm)	24	36	40	50	60	80	100	120
No Hole	115	915487	915509	006890	006286	006904	006905	910829	910833
	125	924938	924939	924940	006461	910885	910887	910878	910879
	150	910936	910938	910945	910946	910949	910955	910928	910933
	178	911043	911045	911049	911053	911056	911064	911036	911038
	200	947616	006478	930856	930854	911065	923221	930857	930858
7 Holes	150	947352	-	947407	947458	947459	947460	947339	947351
8 Holes	125	006489	-	006491	006492	006493	006494	006488	005284
9 Holes	150	924934	-	910994	910995	910996	910997	910992	910993
15 Holes	150	945958	-	921206	945960	921208	921211	921199	921202
Star Shaped Hole	178	921162	-	921166	947569	921168	921171	921157	921159





# YY Polyester Cloth Hook & Loop Discs



# AO

Aluminum Oxide

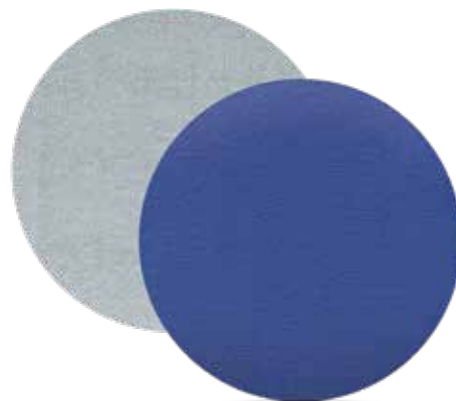
Product Code : AYXR11  
 Abrasive : Aluminum Oxide  
 Backing : YY Polyester Cloth  
 Grit Range : 16-600  
 Application : Ideal for sanding wood, low alloy steel, stainless steel (Inox), brass, copper and non ferrous metals.  
 Feature : Closed coating.

Type	Dimension (mm)	16	36	40	60	80	100	120	150	180	220	240	280	320	400	500	600
No Hole	125	997836	997842	953592	032399	032400	977054	977056	997862	997867	997871	976683	997881	976684	976685	032402	997908
	150	910926	997843	997848	032409	032401	977059	945929	997861	945930	997872	997876	997888	997896	997901	032403	997906



## YY Polyester Cloth Hook & Loop Discs

**ZR**  
Zirconia



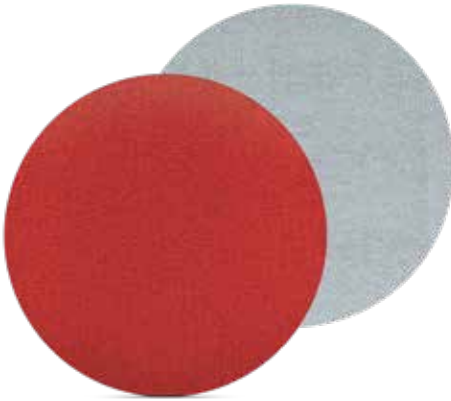
Product Code : ZYYR11  
 Abrasive : Zirconia  
 Backing : YY Polyester Cloth  
 Grit Range : 24-400  
 Application : Ideal for sanding stainless steel (Inox), high alloy steel, heat resistant steel, low alloy steel, aluminium, zamak, cast iron and wood materials.  
 Feature : Closed coating.

Type	Dimension (mm)	24	36	40	50	60	80	100	120	150	180	220	240	280	320	400
No Hole	150	945938	945939	006509	945940	006250	006510	945937	006251	032331	032332	032333	032334	032335	032336	032337





## YY Polyester Cloth Hook & Loop Discs



# CE

Ceramic

Product Code : CEYYR21  
 Abrasive : Ceramic  
 Backing : YY Polyester Cloth  
 Grit Range : 24-120  
 Application : Ideal for sanding wood, brass, copper and non ferrous metals.  
 Feature : Semi-open coating.

Type	Dimension (mm)	24	36	40	50	60	80	100	120
No Hole	125	006302	006303	006507	006304	944531	932798	006301	006508
	150	945916	003267	004681	004682	004684	004686	004680	003497







## YY Polyester Cloth Hook & Loop Discs



# AG

**Compact Aluminum Oxide**

- Product Code : AGYYR21
- Abrasive : Compact Aluminum Oxide
- Backing : YY Polyester Cloth
- Grit Range : 80-600
- Application : Ideal for polishing and finishing low alloy steel, stainless steel, high alloy steel and heat resistant steel.
- Feature : Semi-Open coating.

Type	Dimension (mm)	80	120	180	240	320	400	600
No Hole	115	954146	954147	954148	954149	954150	954151	954152
	125	954153	954154	004007	954156	954157	954158	954159
	150	953835	954160	954161	953836	954162	954163	954164
	178	032404	032410	032405	032406	032407	032408	997919



## YY Polyester Cloth Hook &amp; Loop Discs

**AG****Compact Aluminum Oxide**

Product Code	: AGYYR24
Abrasive	: Compact Aluminum Oxide
Backing	: YY Polyester Cloth
Grit Range	: 80-600
Application	: Ideal for polishing and finishing low alloy steel, stainless steel, high alloy steel and heat resistant steel.
Feature	: Semi-Open coating.



Type	Dimension (mm)	80	120	180	240	320	400	600
No Hole	115	032455	032459	032463	032467	032471	032475	032479
	125	032456	032460	032464	032468	032472	032476	032480
	150	032457	032461	032465	032469	032473	032477	032481
	178	032458	032462	032466	032470	032474	032478	032482





# Sheets and Sponge



Karbosan sheets and sponges are offered in various types for sanding sensitive surfaces.





## Non-Woven Sheet



Suitable for automotive, wood, all kinds of paint, lining, putty and laboratory work, sanding sensitive surfaces with hand or machine. Flexible and high sanding performance combined with wet or dry workability.

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Dimension (mm)	Article	Box
230x280	915378	10

## Sponge Abrasive

Grit Range : 60-1000

Feature : Suitable for sanding of metal, wood, wall, hard plastic and similar materials. It is an alternative to waterproof sandpaper. Long-lasting, convenient for hand use, has the ability to be washed repeatedly with water.



Dimension (mm)	Grain	Article	Box
100x68 x27	60	980011	1
100x68 x27	80	980012	1
100x68 x27	100	980001	1
100x68 x27	120	980002	1
100x68 x27	150	980003	1
100x68 x27	180	980004	1

Dimension (mm)	Grain	Article	Box
100x68 x27	220	980005	1
100x68 x27	240	980006	1
100x68 x27	280	980007	1
100x68 x27	320	980008	1
100x68 x27	360	980009	1
100x68 x27	400	980010	1





# Flap Wheels





















Karbosan flap wheels are offered in various types to meet different application needs.





# Product Types

Karbosan flap wheels are offered in various types to meet different application needs. Flap wheels are served with a total of 25 different types under product groups of Shaft, Flanged, Keyway, Flap Type and Threaded. Other than the standard types, flap wheels are also specially offered according to customer demands, applications and operation methods.

Category	Product	Material	Quality		Category	Product	Material	Quality	
<b>Flap Wheel With Spindle</b>	Abrasive Cloth	Abrasive Cloth	AXFR12		<b>Keyway Flap Wheel</b>	Abrasive Cloth	Abrasive Cloth	AXFR12	
	Non-Woven	Non-Woven	A Fine			Non-Woven	Non-Woven	A Fine	
	Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine			Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine	
<b>Flap Wheel With Flange</b>	Abrasive Cloth	Abrasive Cloth	AXFR12		<b>Flap Type Flap Wheel</b>	Non-Woven	Non-Woven	A Fine	
	Non-Woven	Non-Woven	A Fine			Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine	
	Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine			Unitized	Non-Woven	Silicon Carbide	
<b>Threaded Flap Wheel</b>	Abrasive Cloth	Abrasive Cloth	AXFR12		<b>Threaded Flap Wheel</b>	Abrasive Cloth	Abrasive Cloth	AXFR12	
	Non-Woven	Non-Woven	A Fine			Non-Woven	Non-Woven	A Fine	
	Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine			Non-Woven Combi	Abrasive Cloth and Non-Woven	AXFR12 & A Fine	

# Application and Performance Table

- Perfect
- Suitable
- Possible



Category	Product	Cylindrical (Hole)	Flat	Formed / Edge
Flap Wheel With Spindle	Abrasive Cloth	●●●	●	●●●
	Non-Woven	●●●	●	●●●
	Non-Woven Combi	●●●	●	●●●
Flap Wheel With Flange	Abrasive Cloth	●●●	●●	●●
	Non-Woven	●●●	●●	●●
	Non-Woven Combi	●●●	●●	●●

Category	Product	Cylindrical (Hole)	Flat	Formed / Edge
Keyway Flap Wheel	Abrasive Cloth	●	●●●	●●
	Non-Woven	●	●●●	●●
	Non-Woven Combi	●	●●●	●●
Flap Type Flap Wheel	Non-Woven	●	●●●	●
	Non-Woven Combi	●	●●●	●
	Unitized	●	●●●	●
Threaded Flap Wheel	Abrasive Cloth	●●●	●	●●
	Non-Woven	●●●	●	●●
	Non-Woven Combi	●●●	●	●●

## Types and Diameters

Diameter (mm)	Width (mm)	Flap Wheel With Spindle			Flap Wheel With Flange			Keyway Flap Wheel			Flap Type Flap Wheel			Threaded Flap Wheel		
		Abrasive Cloth	Non-Woven	Non-Woven Combi	Abrasive Cloth	Non-Woven	Non-Woven Combi	Abrasive Cloth	Non-Woven	Non-Woven Combi	Non-Woven	Non-Woven Combi	Unitized	Abrasive Cloth	Non-Woven	Non-Woven Combi
20	10, 15, 20, 25	●	●	●												
25	15, 20, 30	●	●	●												
30	10, 15, 20, 30	●	●	●												
40	10, 15, 20, 30	●	●	●												
50	10, 15, 20, 30	●	●	●												
60	15, 20, 30, 40	●	●	●												
80	15, 20, 30, 40, 50	●	●	●												
100	100							●	●	●						
115	-										●	●	●	●	●	●
165	30, 50				●	●	●									



## Flap Wheel With Spindle

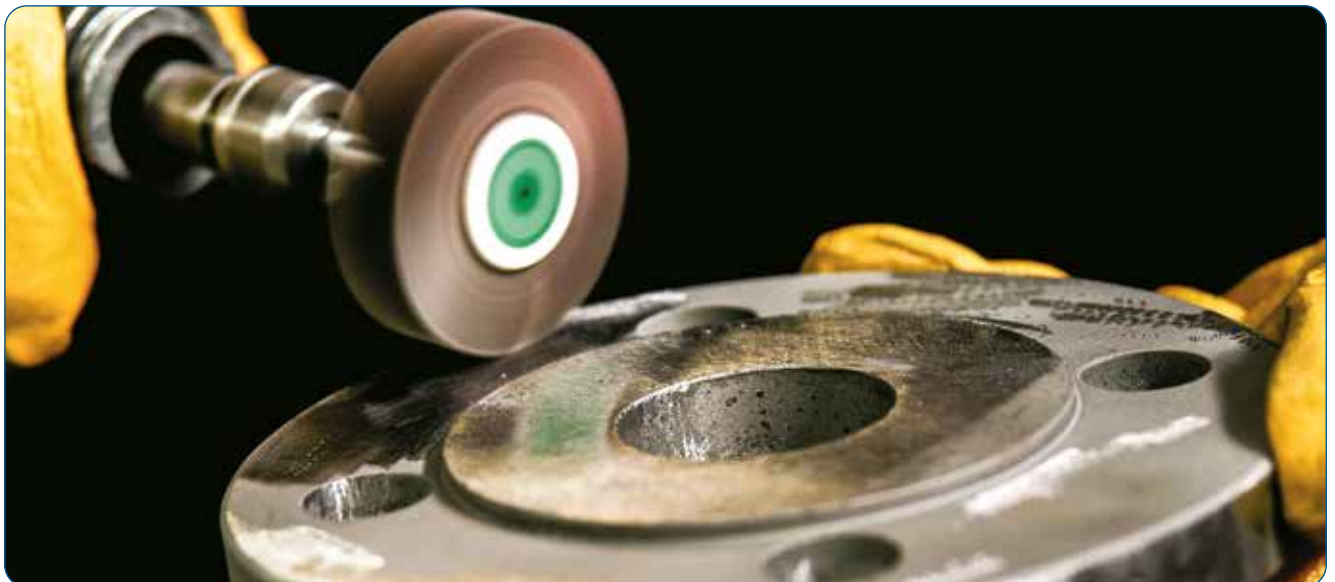
Suitable for grinding inner surface of piping, cylindrical parts like fittings and hard to reach profile surfaces. Applied with electrical or pneumatic hand tools; used in abrasive cloth, non-woven or combi version selected according to the surface roughness. General usage in construction and foundry industry.

### Abrasive Cloth



Durable and flexible cotton cloth backing with Aluminum Oxide grains. Weld grinding and deburring surfaces in coarse and fine grinding. High stock removal capability and optimum lifetime.

Dimension (mm)	Quality	40	60	80	100	120	150	180	220	240	280	320	400	Box
20x15		981464	980357	981469	981444	981448	981449	981453	981454	981458	981459	981463	981468	20
20x20		981499	980363	981504	981479	981483	981484	981488	981489	981493	981494	981498	981503	20
20x25		981528	981533	981534	981508	981509	981513	981514	981518	981519	981523	981524	981529	20
25x15		981569	981574	981578	981549	981553	981554	981558	981559	981563	981564	981568	981573	10
25x20		981599	981604	981608	981583	981584	981588	981589	981593	981594	981598	981579	981603	10
25x30		981643	981648	981649	981623	981624	981628	981629	981633	981634	981638	981639	981644	10
30x10		981684	981689	981693	981664	981668	981669	981673	981674	981678	981679	981683	981688	10
30x15		981714	980345	980352	981694	981698	981699	981703	981704	981708	981709	981713	981718	10
30x20		981739	980344	981744	981719	981723	981724	981728	981729	981733	981734	981738	981743	10
30x30		980360	980350	981779	981753	981754	981758	981759	981763	981764	981773	981774	981778	10
40x10		981808	980361	981813	981788	981789	981793	981794	981798	981799	981803	981804	981809	10
40x15		981834	980354	980351	981814	981818	981819	981823	981824	981828	981829	981833	981838	10
40x20		980359	980348	981863	981839	981843	981844	981848	981849	981853	981854	981858	981859	10
40x30	AXFR12	981884	980347	980362	981864	981868	981869	981873	981874	981878	981879	981883	981888	10
50x10		981909	981914	981918	981889	981893	981894	981898	981899	981903	981904	981908	981913	10
50x15		981939	981944	981948	981919	981923	981924	981928	981929	981933	981934	981938	981943	10
50x20		981969	980353	980355	981949	981953	981954	981958	981959	981963	981964	981968	981973	10
50x30		982003	980356	982008	981983	981984	981988	981989	981993	981994	981998	981999	982004	10
60x15		982053	982058	982059	982033	982034	982038	982039	982043	982044	982048	982049	982054	10
60x20		982083	982088	980346	982063	982064	982068	982069	982073	982074	982078	982079	982084	10
60x30		982113	980349	980358	982093	982094	982098	982099	982103	982104	982108	982109	982114	10
60x40		982138	982143	982144	982118	982119	982123	982124	982128	982129	982133	982134	982139	10
80x15		982188	982193	982194	982168	982169	982173	982174	982178	982179	982183	982184	982189	10
80x20		982218	982223	982224	982198	982199	982203	982204	982208	982209	982213	982214	982219	10
80x30		982249	982254	982258	982229	982233	982234	982238	982239	982243	982244	982248	982253	10
80x40		982279	982284	982288	982259	982263	982264	982268	982269	982273	982274	982278	982283	10
80x50		982309	982314	982318	982289	982293	982294	982298	982299	982303	982304	982308	982313	10



## Flap Wheel With Spindle

### Non-Woven



Suitable for surface cleaning and polishing. Composed of A Fine quality non-woven. No scratch on material surface during operation.

Dimension (mm)	Quality	Article	Box
20x15		930086	20
20x20		930087	20
20x25		930088	20
25x15		930089	10
25x20		930093	10
25x30		930094	10
30x10		930095	10
30x15		930096	10
30x20		930097	10
30x30		915346	10
40x10		930098	10
40x15		930099	10
40x20		930103	10
40x30	AXFR12 & A Fine	915348	10
50x10		930104	10
50x15		965431	10
50x20		965432	10
50x30		915350	10
60x15		930105	10
60x20		930106	10
60x30		915354	10
60x40		930107	10
80x15		930108	10
80x20		930109	10
80x30		915358	10
80x40		930113	10
80x50		930114	10

### Non-Woven Combi



Suitable for surface preparation before polishing. Composed of abrasive cloth with 100 grit and A Fine quality non-woven. Abrasive cloth and non-woven combination allows both aggressive and sensitive grinding.

Dimension (mm)	Quality	Article	Box
20x15		930115	20
20x20		930116	20
20x25		930117	20
25x15		930118	10
25x20		930119	10
25x30		930123	10
30x10		930124	10
30x15		930125	10
30x20		930126	10
30x30		915363	10
40x10		930127	10
40x15		930144	10
40x20		930128	10
40x30	AXFR12 & A Fine	915365	10
50x10		930129	10
50x15		930133	10
50x20		965433	10
50x30		915367	10
60x15		930134	10
60x20		930135	10
60x30		915371	10
60x40		930136	10
80x15		930137	10
80x20		930138	10
80x30		915375	10
80x40		930139	10
80x50		930143	10



## Flap Wheel With Flange

Suitable for grinding wide and cylindrical parts both for inner and outer surfaces. Used in grinding various formed surfaces. Suitable for both fixed and hand tools; used in grinding all types of metal and non-metal.



### Abrasive Cloth

Durable and flexible cotton cloth backing with Aluminum Oxide grains. Weld grinding and deburring surfaces in coarse and fine grinding. High stock removal capability and optimum lifetime.

Dimension (mm)	Quality	40	60	80	100	120	150	180	220	240	280	320	400	Box
165 x30 x45	AXFR12	982533	982538	982539	982513	982514	982518	982519	982523	982524	982528	982529	982534	2
165 x50 x45		982603	982608	982613	982583	982584	982588	982589	982593	982594	982598	982599	982604	1



### Non-Woven

Suitable for surface cleaning and polishing. Composed of A Fine quality non-woven. No scratch on material surface during operation.

Dimension (mm)	Quality	Article	Box	Dimension (mm)	Quality	Article	Box
165 x30 x25	A Fine	915379	2	165 x50 x25	A Fine	915381	1
165 x30 x45		915380	2	165 x50 x45		915382	1



### Non-Woven Combi

Suitable for surface preparation before polishing. Composed of abrasive cloth with 100 grit and A Fine quality non-woven. Abrasive cloth and non-woven combination allows both aggressive and sensitive grinding.

Dimension (mm)	Quality	Article	Box	Dimension (mm)	Quality	Article	Box
165 x30 x25	AXFR12 & A Fine	987008	2	165 x50 x25	AXFR12 & A Fine	987010	1
165 x30 x45		987009	2	165 x50 x45		987011	1

# Keyway Flap Wheels

It is usually suitable for grinding large areas or formed surfaces, especially on smooth surfaces. Suitable for both fixed and hand tools.

## Abrasive Cloth

Durable and flexible cotton cloth backing with Aluminum Oxide grains. Weld grinding and deburring surfaces in coarse and fine grinding. High stock removal capability and optimum lifetime.

Dimension (mm)	Quality	40	60	80	100	120	Box
100 x100 x19	AXFR12	982424	982444	982448	982419	982423	10



## Non-Woven

Suitable for surface cleaning and polishing. Composed of A Fine quality non-woven. No scratch on material surface during operation.

Dimension (mm)	Quality	Article	Box
100 x100 x19	A Fine	915388	2



## Non-Woven Combi

Suitable for surface preparation before polishing. Composed of abrasive cloth with 100 grit and A Fine quality non-woven. Abrasive cloth and non-woven combination allows both aggressive and sensitive grinding.

Dimension (mm)	Quality	Article	Box
100 x100 x19	AXFR12 & A Fine	987012	2





## Flap Type Flap Wheels

Designed for angle grinding. Used in electrical hand tools. It is usually used to obtain a more delicate surface than surfaces obtained from normal flap discs.



### Non-Woven

Suitable for surface cleaning and polishing. Composed of A Fine quality non-woven. No scratch on material surface during operation.

Dimension (mm)	Quality	Article	Box
115 x22.23	A Fine	915342	10



### Non-Woven Combi

Suitable for surface preparation before polishing. Composed of abrasive cloth with 100 grit and A Fine quality non-woven. Abrasive cloth and non-woven combination allows both aggressive and sensitive grinding.

Dimension (mm)	Quality	Article	Box
115 x22.23	AXFR12 & A Fine	986980	10



### Unitized

Suitable for removing paint, dirt and rust.

Dimension (mm)	Abrasive	Article	Box
115 x22.23	Silicon Carbide	955236	10

# Threaded Flap Wheels

Suitable for angled and flat use in all hand-held machine. Used for sanding circular inner and flat surfaces.

## Abrasive Cloth

Durable and flexible cotton cloth backing with Aluminum Oxide or Zirconia grains. Weld grinding and deburring surfaces in coarse and fine grinding. High stock removal capability and optimum lifetime.

Dimension (mm)	Quality	40	60	80	100	120	150	180	220	240	280	320	400	Box
115 x20 xM14	AXFR12	982469	982474	982478	982449	982453	982454	982458	982459	982463	982464	982468	982473	10
115 x20 xM14	ZXR11	955250	955251	955252	955253	955254								10



## Non-Woven

Suitable for surface cleaning and polishing. Composed of A Fine quality non-woven. No scratch on material surface during

Dimension (mm)	Quality	Article	Box
115 x20 xM14	A Fine	955255	10
115 x30 xM14		955256	10



## Non-Woven Combi

Suitable for surface preparation before polishing. Composed of abrasive cloth with 100 grit and A Fine quality non-woven. Abrasive cloth and non-woven combination allows both aggressive and sensitive grinding.

Dimension (mm)	Quality	Article	Box
115 x20 xM14	AXFR12 & A Fine	987013	10
115 x30 xM14		987014	10



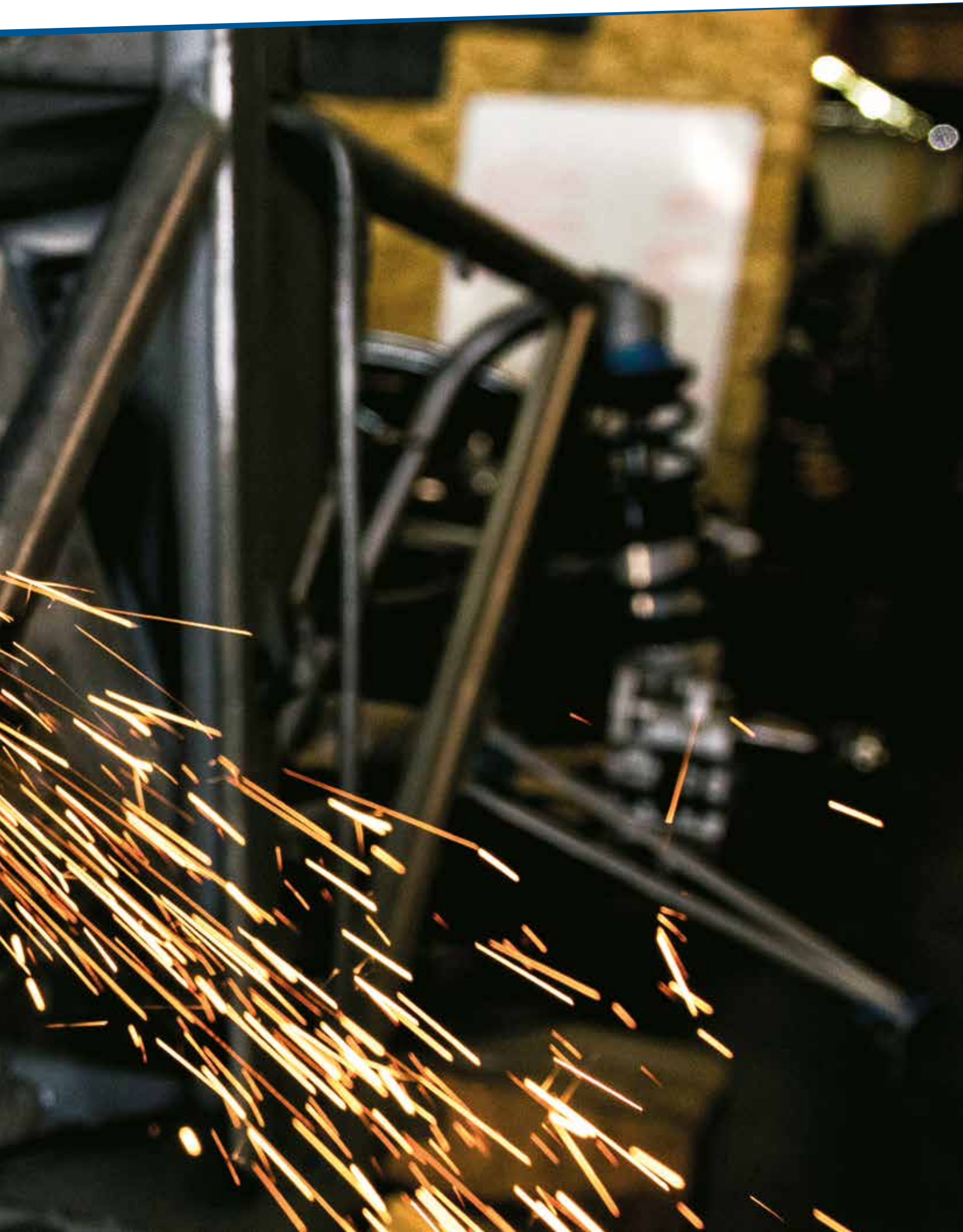


# Quick Lock Discs












Karbosan quick lock discs are available in various specifications for polishing and sanding of small & narrow surfaces.





## Product Types

Karbosan quick locked discs are generally used for sanding small and narrow areas. Thanks to easy installation, it increases efficiency by reducing operation time. Suitable for using light, pneumatic or hand-held machines.

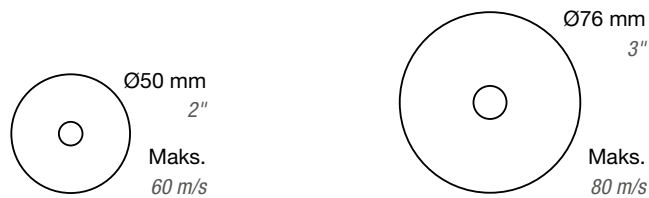
Abrasive	Features	Backing / Quality	Application	
<b>AO</b> Aluminum Oxide	AYXR11	YY Polyester Cloth	Ideal for sanding stainless steel and high alloy steels. YY polyester cloth backing with aggressive Aluminum Oxide abrasive.	
<b>ZR</b> Zirconia <b>TOPSIZE</b>	ZYYR51	YY Polyester Cloth	Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron materials. High stock removal and long life with YY polyester cloth backing with 100% Zirconia abrasive, also with friction and heat resistant Top Size coating.	
<b>CE</b> Ceramic <b>TOPSIZE</b>	CEYYR51	YY Polyester Cloth	Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron. YY polyester cloth backing with Ceramic abrasive, also with friction and heat resistant Top Size coating.	
<b>AO</b> Aluminum Oxide	Green	Fine / A Very Fine	Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.	
<b>AO</b> Aluminum Oxide	Maroon	Medium / A Medium	Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.	
<b>AO</b> Aluminum Oxide	Brown	Coarse / A Coarse	Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.	
<b>SC</b> Silicon Carbide	Silicon Carbide Abrasive	-	Used for pre-weld operation on metal surfaces and soft grinding in paint, rust and oxidation removal.	

# Application and Performance Table

- Perfect
- Suitable
- Possible

Abrasive	Dirt / Rust	Low Alloy Steel	Stainless Steel / Inox	High Alloy Steel / Heat Resistant Steel	Aluminium / Zamak	Brass / Cooper / Non Ferrous Metals	Cast Iron	Paint / Varnish / Lacquer	Performance
<b>AO</b> Aluminum Oxide <i>AYXR11</i>		●●	●●	●●	●●●●	●●●●	●●	Stock Removal ●●●○ Lifetime ●●●○	
<b>ZR TOPSIZE</b> Zirconia <i>ZYR51</i>		●●●	●●●	●●●	●●	●●	●●●	Stock Removal ●●●●○ Lifetime ●●●●○	
<b>CE TOPSIZE</b> Ceramic <i>CEYR51</i>		●●●	●●●	●●●	●●	●●	●●●	Stock Removal ●●●●● Lifetime ●●●●●	
<b>AO</b> Aluminum Oxide <i>Green</i>	●	●●●	●●●	●●●	●●	●●	●●●	Stock Removal ●●●○ Lifetime ●●○	
<b>AO</b> Aluminum Oxide <i>Maroon</i>	●	●●●	●●●	●●●	●●	●●	●●●	Stock Removal ●●●○ Lifetime ●●○	
<b>AO</b> Aluminum Oxide <i>Brown</i>	●	●●●	●●●	●●●	●●	●●	●●●	Stock Removal ●●●○ Lifetime ●●○	
<b>SC</b> Silicon Carbide	●●●						●●●	Stock Removal ●●●●● Lifetime ●●●●●	

## Dimensions





## Aluminum Oxide Quick Lock Discs



**AO**  
Aluminum Oxide

Stock Removal ●●●○○  
Lifetime ●●●○○

Product Code : AYXR11  
 Abrasive : Aluminum Oxide  
 Backing : YY Polyester Cloth  
 Grit Range : 16-600  
 Features : Ideal for sanding stainless steel and high alloy steels. YY polyester cloth backing with aggressive Aluminum Oxide abrasive.

Dimension (mm)	16	24	36	40	60	80	100	120	150	180	220	240	280	320	400	500	600	Box
50	992251	987379	955263	955264	955266	955267	955268	955269	955270	955271	955272	955273	955274	955275	955276	992256	992298	100
76	992299	987380	955277	955278	955280	955281	955282	955283	955284	955285	955286	955287	955288	955289	955290	992300	992301	100

## Zirconia Quick Lock Discs



**ZR TOPSIZE**  
Zirconia

Stock Removal ●●●●○  
Lifetime ●●●●○

Product Code : ZYYR51  
 Abrasive : Zirconia  
 Backing : YY Polyester Cloth  
 Grit Range : 36-120  
 Features : Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron materials. High stock removal and long life with YY polyester cloth backing with 100% Zirconia abrasive, also with friction and heat resistant Topsisize coating.

Dimension (mm)	36	40	60	80	100	120	Box
50	955291	955292	955294	955295	955296	955297	100
76	955298	955299	955301	955302	955303	955304	100



## Ceramic Quick Lock Discs

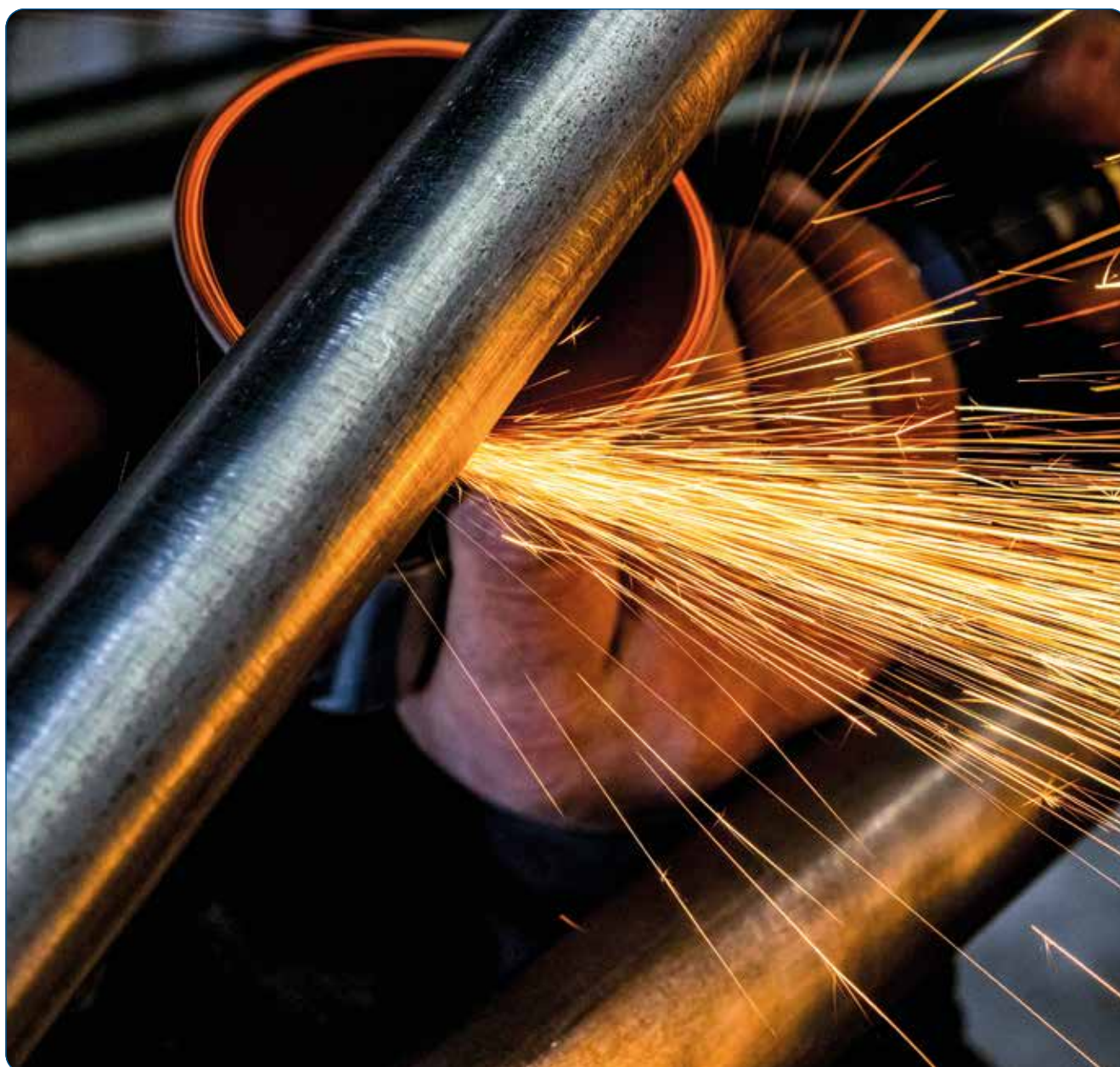
**CE** TOPSIZE  
Ceramic

Stock Removal ●●●●●●  
Lifetime ●●●●●●

Product Code : CEYR51  
Abrasive : Ceramic  
Backing : YY Polyester Cloth  
Grit Range : 24-120  
Application : Ideal for sanding stainless steel, high alloy steel, heat resistant steel and cast iron. YY polyester cloth backing with Ceramic abrasive, also with friction and heat resistant Top Size coating.



Dimension (mm)	24	36	40	50	60	80	100	120	Box
50	983724	955305	955306	955307	955308	955309	955310	955311	100
76	987383	955312	955313	955314	955315	955316	955317	955318	100





## Fine Non-Woven Quick Lock Discs



# AO

Aluminum Oxide

Stock Removal ●●●○○

Lifetime ●●○○○

Abrasive : Aluminum Oxide  
 Colour : Green  
 Quality : Fine / A Very Fine  
 Features : Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.

Dimension (mm)	Quality	Article	Box
50	Fine / A Very Fine	955319	100
76		955320	100

## Medium Non-Woven Quick Lock Discs



# AO

Aluminum Oxide

Stock Removal ●●●○○

Lifetime ●●○○○

Abrasive : Aluminum Oxide  
 Colour : Maroon  
 Quality : Medium / A Medium  
 Features : Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.

Dimension (mm)	Quality	Article	Box
50	Medium / A Medium	955321	100
76		955322	100

## Coarse Non-Woven Quick Lock Discs



# AO

**Aluminum Oxide**

Stock Removal ●●●○○

Lifetime ●●○○○

Abrasive : Aluminum Oxide  
 Colour : Brown  
 Quality : Coarse / A Coarse  
 Features : Used for cleaning rust, old coating, machine or pencil traces on metal surfaces. High quality flexible discs are very suitable for obtaining a homogeneous surface. Ideal for stainless steel, carbon alloys, aluminum and other metals.

Dimension (mm)	Quality	Article	Box
50	Coarse / A Coarse	955323	100
76		955324	100

## SC Unitized Quick Lock Discs



# SC

**Silicon Carbide**

Stock Removal ●●●●●

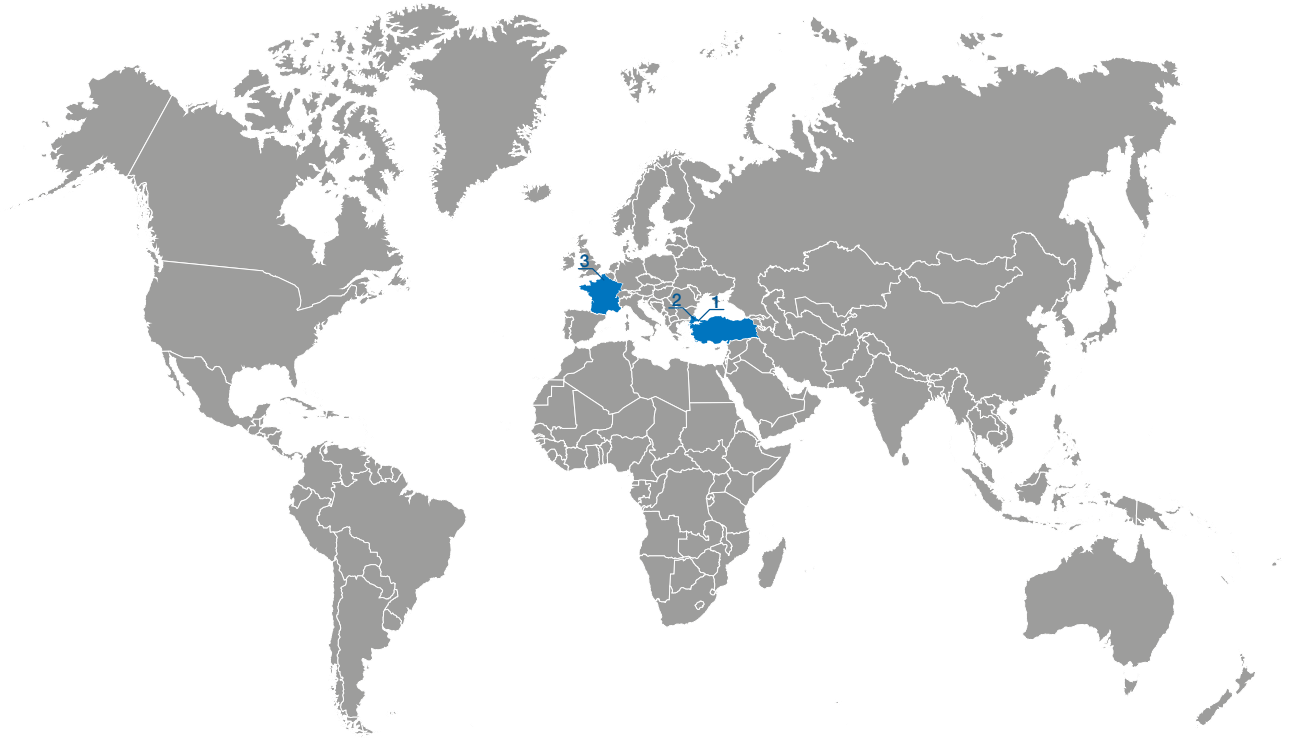
Lifetime ●●●●○

Abrasive : Silicon Carbide  
 Features : Used for pre-weld operation on metal surfaces and soft grinding in paint, rust and oxidation removal.

Dimension (mm)	Quality	Article	Box
50	Silicon Carbide	955325	100
76		955326	100



# Contact



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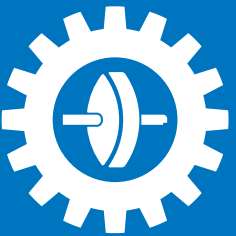


# Notes

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