

KGS PREMIUM FLAP DISCS







KGS DIAMOND GROUP of Switzerland is the world leader in flexible diamond abrasive tools for virtually every industrial use. Innovation, high quality and exceptional value for customers are the guiding principals behind every KGS product. Today, the KGS team based in Viana do Castelo, Portugal, produce a complete range of premium abrasive flap discs that continue the KGS traditions of innovation and value for customers. These premium abrasive flap discs are meeting the expectations of the world's most demanding customers.

FLAP DISCS INTRODUCTION

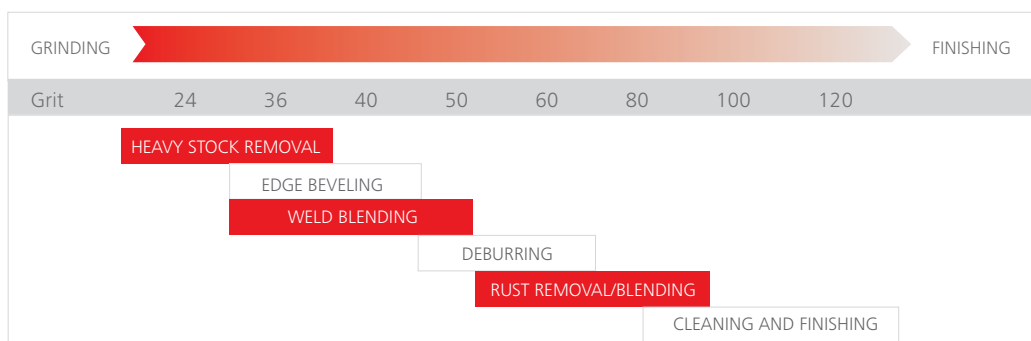
Flap Discs vs. Grinding Wheels

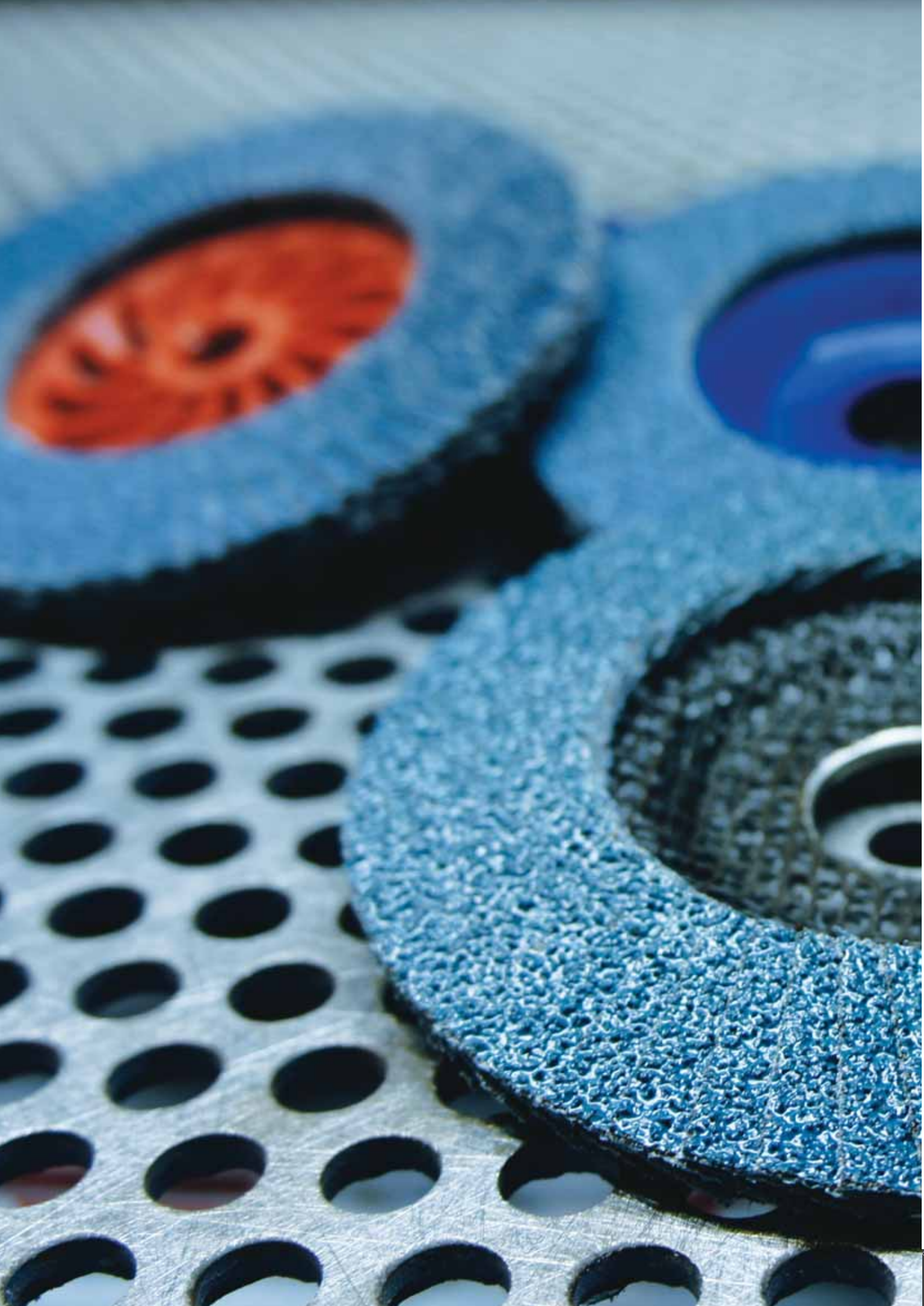
- Faster and easier stock removal
- Smoother finish
- Cooler cutting, less glazing
- Less vibration, less operator fatigue
- Reduced noise

Flap Discs vs. Fiber Discs

- About 20 times longer life
- Fewer disc changes, reduced labor cost
- More consistent finish
- No back-up pad required
- Easier storage, no curling

Usage reference guide:





KGS Premium Solutions

KGS offers complete, premium solutions for all types of work. A selected and tested range of the best abrasive cloths in the market, from standard Zirconium or Aluminium Oxide to incredible Diamond flaps in various price ranges to be sure that you have the right tool for the job.

Select an abrasive cloth, a price range and review all the available options for each disc.

Cloth Options:

A

Aluminum Oxide Solutions

- Soft metals
- Ferrous and nonferrous metals

Z

Zirconium Solutions

- Hard and tougher metals
- Ferrous and nonferrous metals

S

Silicon Carbide

- Glass/ Stone

H

Hybrid solutions

- General purpose solution
- Broad range of metals

D

Diamond solutions

- Glass, Stone, Ceramics
- Composites, hard metals

Price range:

E

Economical Solutions

- Good performance
- Economical price abrasive cloth
- Low (LD), standard (SD) or high (HD) density of flaps

P

Professional Solutions

- Above average performance
- Standard price abrasive cloth
- Standard (SD) or high (HD) density of flaps

I

Industrial Solutions

- The ultimate in high performance and long life
- Standard (SD) or high (HD) density of flaps

A

ALUMINUM OXIDE LINE

METAL



AE Economical Solution

Economical abrasive cloth with low, standard or high flap density. For general use on all kinds of metal application.

Application
To be used on all types of iron, stainless steel or aluminum. Good results at an excellent price.



AP Professional Solution

Professional abrasive cloth with standard or high flap density.

Application
To be used on all types of iron, stainless steel or aluminum. Good results at an excellent price.

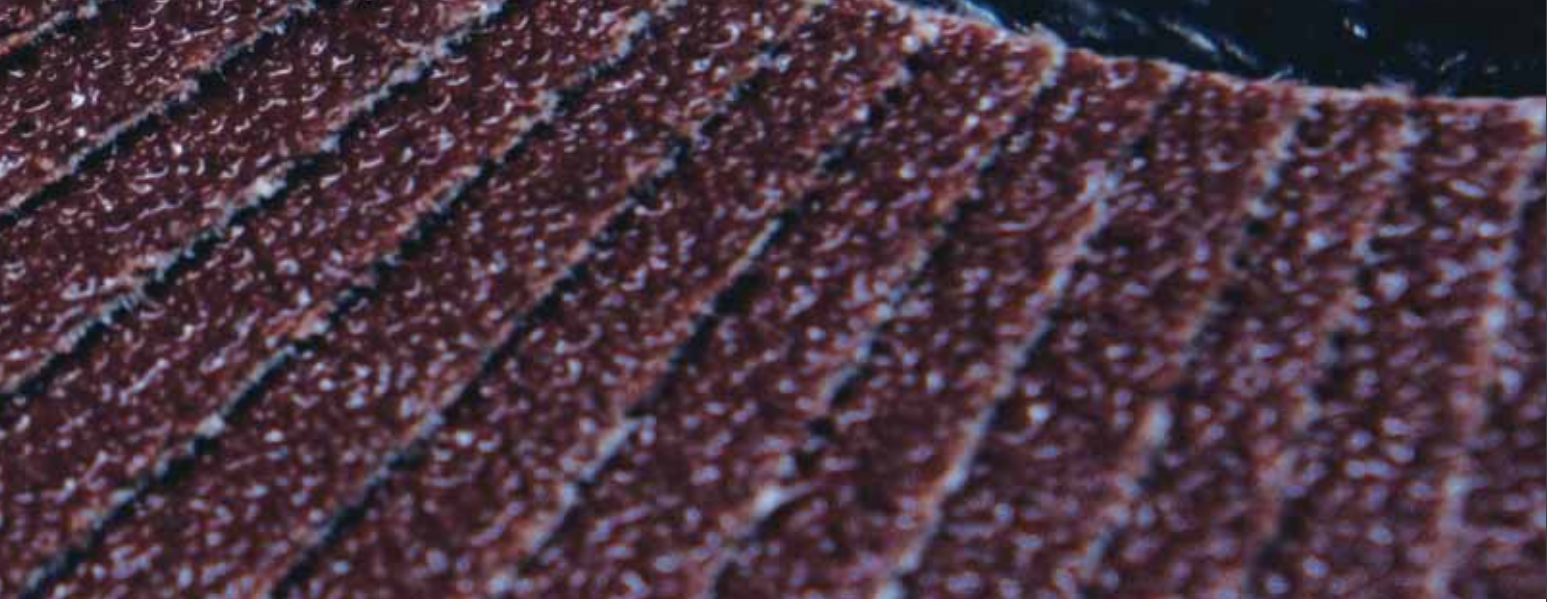


AI Industrial Solution

High quality ceramic abrasive cloth with standard or high flap density.

Latest generation of ceramic abrasive grain. Cool, noticeably fast cut rate. Significantly improved life, grain retention and fray resistance. High strength, lightweight, absorbs vibration.

Application
Very good results, mainly on hard metal and non-ferrous metal. Lasts 50% – 200% longer than any flap discs on stainless steel, cobalt, chrome, Inconel, titanium and other hard-to-grind materials



Grits
40, 60, 80, 120.

Cloth backing
Light Cotton



Grits
40, 60, 80, 120.

Cloth backing
Cotton

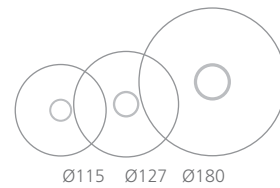
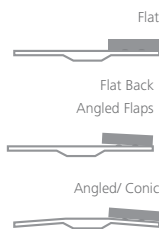


Grits
40, 60, 80.

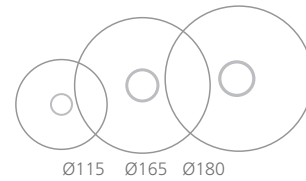
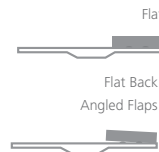
Cloth backing
Polycotton

Available in:

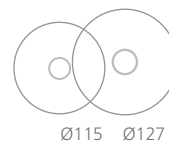
FG



PLS



M14



LD - Low Density

SD - Standard

HD - High Density

Recommended
Max speed:

Ø 115mm 13.300 rpm
Ø 127mm 12.000 rpm
Ø 180mm 8.500 rpm



10 Discs per box.
Standard white box.
Private label possible.



Other sizes available
on request.

Z

ZIRCONIUM LINE

METAL



ZE Economical Solution

Economical abrasive cloth with low, standard or high flap density. For general use on all types of applications.

Application
To be used on all types of iron, stainless steel, aluminum. Good results at an excellent price.



ZP Professional Solution

Professional abrasive cloth with standard or high flap density.

Application
To be used on all types of iron, stainless steel, aluminum. Professional results at an excellent price.



ZI Industrial Solution

High quality abrasive cloth at a competitive price with standard or high flap density. Aggressive cut and long life. Up to 30% longer life than competitive zirconia alumina products. Improved durability. Resists loading on aluminum. High strength, lightweight, absorbs vibration.

Application
Very good final result and easy to use. The best value.



Grits
40, 60, 80, 120.

Cloth backing
Light Cotton



Grits
40, 60, 80, 120.

Cloth backing
Light Cotton

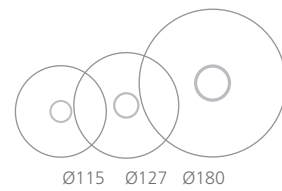
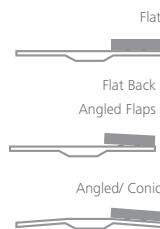


Grits
40, 60, 80, 120.

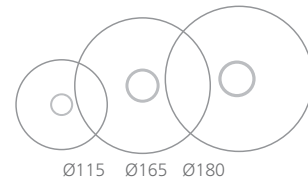
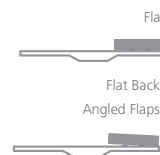
Cloth backing
Polycotton

Available in:

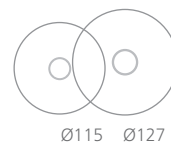
FG



PLS



M14



LD - Low Density

SD - Standard

HD - High Density

Recommended
Max speed:

Ø 115mm 13.300 rpm
Ø 127mm 12.000 rpm
Ø 180mm 8.500 rpm



10 Discs per box.
Standard white box.
Private label possible.

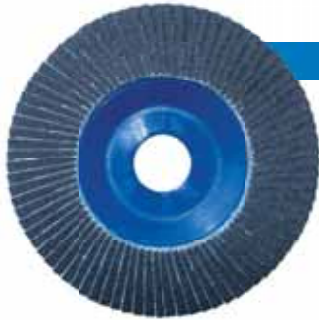


Other sizes available
on request.

S

SILICON CARBIDE LINE

GLASS STONE

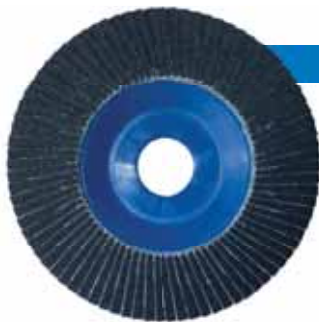


SP/S Professional Solution

Silicon carbide for stone.

Application

Excellent for finishing all types of natural and synthetic stone (marble, granite, composites, etc). Very good finishing quality.

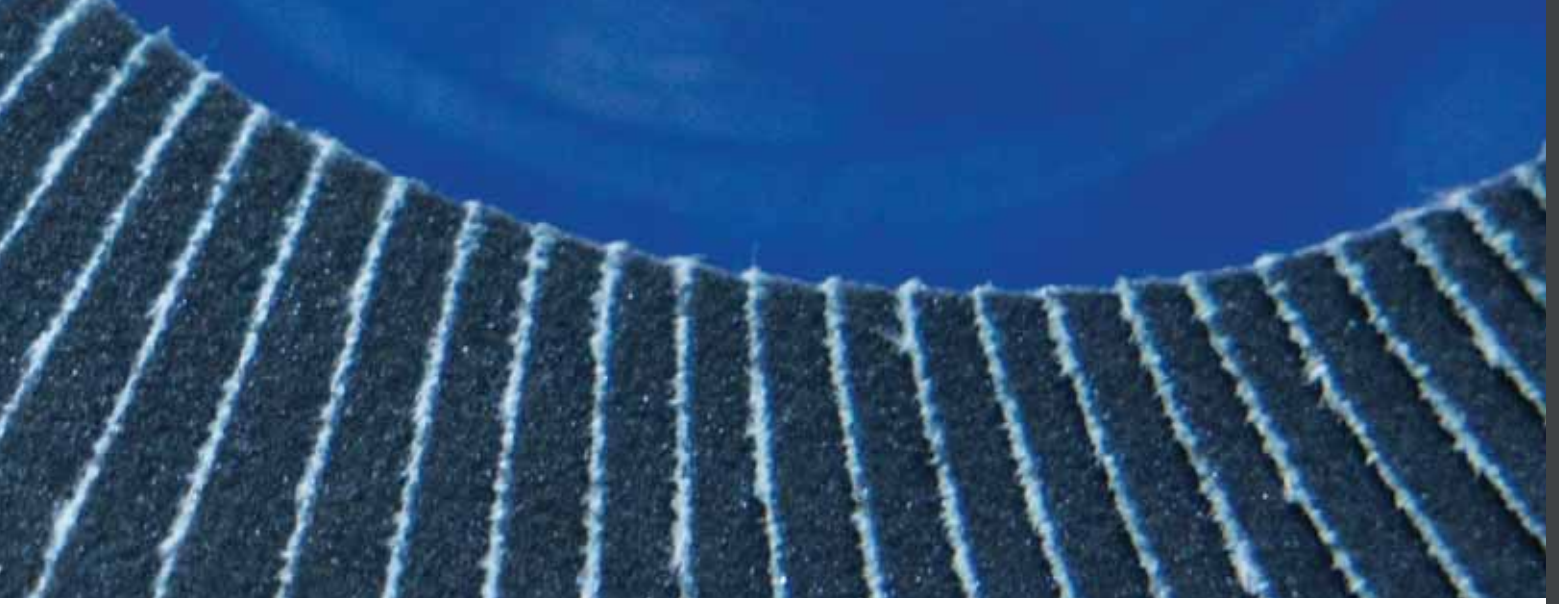


SP/G Professional Solution

Silicon carbide for glass.

Application

Excellent abrasive cloth for glass edging. Based on requests from our customers in the glass market, KGS developed a softer acting 165mm disc, with a higher number of flaps than our standard tools.



Grits
60, 80, 120, 220, 320.

Cloth backing
Cotton

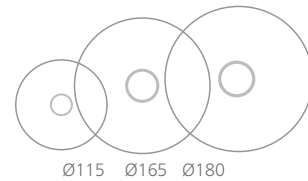
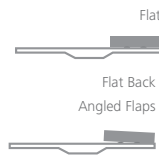


Grits
60, 80, 120, 220, 320.

Cloth backing
Cotton

Available in:

PLS



Ø115 Ø165 Ø180



SD - Standard



HD - High Density
for Ø165

Recommended
Max speed:

- Ø 115mm 13.300 rpm
- Ø 165mm 8.500 rpm
- Ø 180mm 8.500 rpm



10 Discs per box.
Standard white box.
Private label possible.

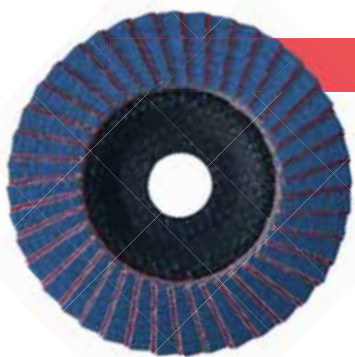


Other sizes available
on request.

H

HYBRID SPECIAL LINE

METAL & GENERAL USE



Hybrid E Economical Solution

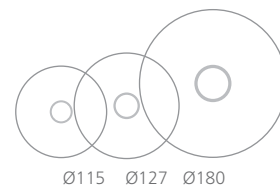
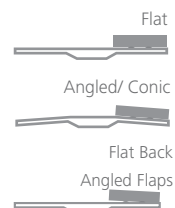
Zirconium flaps alternated with Aluminum Oxide flaps. Better performance than an 100% Zirconium disc.

Application

Long life
Easy to use with high material removal rate.
Consistent performance. Can be used on a broad range of materials.

LD
SD
HD

FG



Hybrid I Industrial Solution

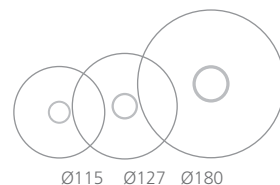
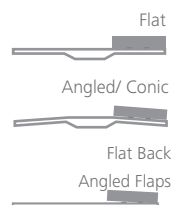
Zirconium flaps alternated with Ceramic flaps. Better performance than an 100% Zirconium disc.

Application

Very fast work and high material removal on hard steel or welds. Consistent performance. Can be used on a broad range of materials.

LD
SD
HD

FG





Grits
Coarse
Medium
Fine

Cloth backing
Cotton

Recommended
Max speed:



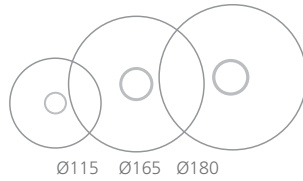
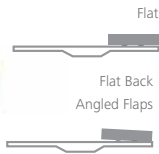
Ø 115mm 13.300 rpm
Ø 127mm 12.000 rpm
Ø 180mm 8.500 rpm

10 Discs per box.
Standard white box.
Private label possible.

Other sizes available
on request.

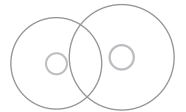
LD
SD
HD

PLS



LD
SD
HD

M14



Grits
Coarse
Medium
Fine

Cloth backing
Light Cotton/ Polycotton

Recommended
Max speed:



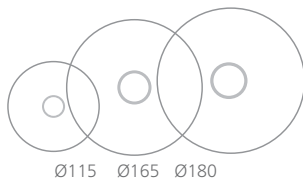
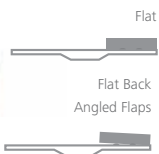
Ø 115mm 13.300 rpm
Ø 127mm 12.000 rpm
Ø 180mm 8.500 rpm

10 Discs per box.
Standard white box.
Private label possible.

Other sizes available
under consult.

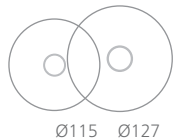
LD
SD
HD

PLS



LD
SD
HD

M14



D

DIAMOND SPECIAL LINE

STONE & GENERAL USE

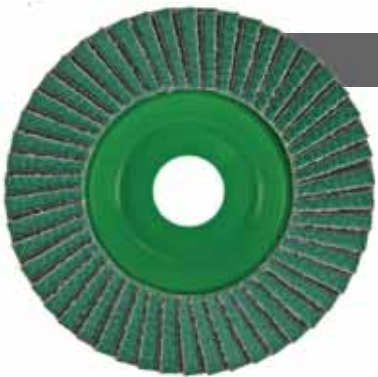
NEW!



Hybrid R Professional Solution

Diamond flap alternated with silicon carbide flap. Excellent for hard materials, mainly for all kind of stones, glass, ceramics and composites. Aggressive disc for the fastest grinding and polishing in the market today.

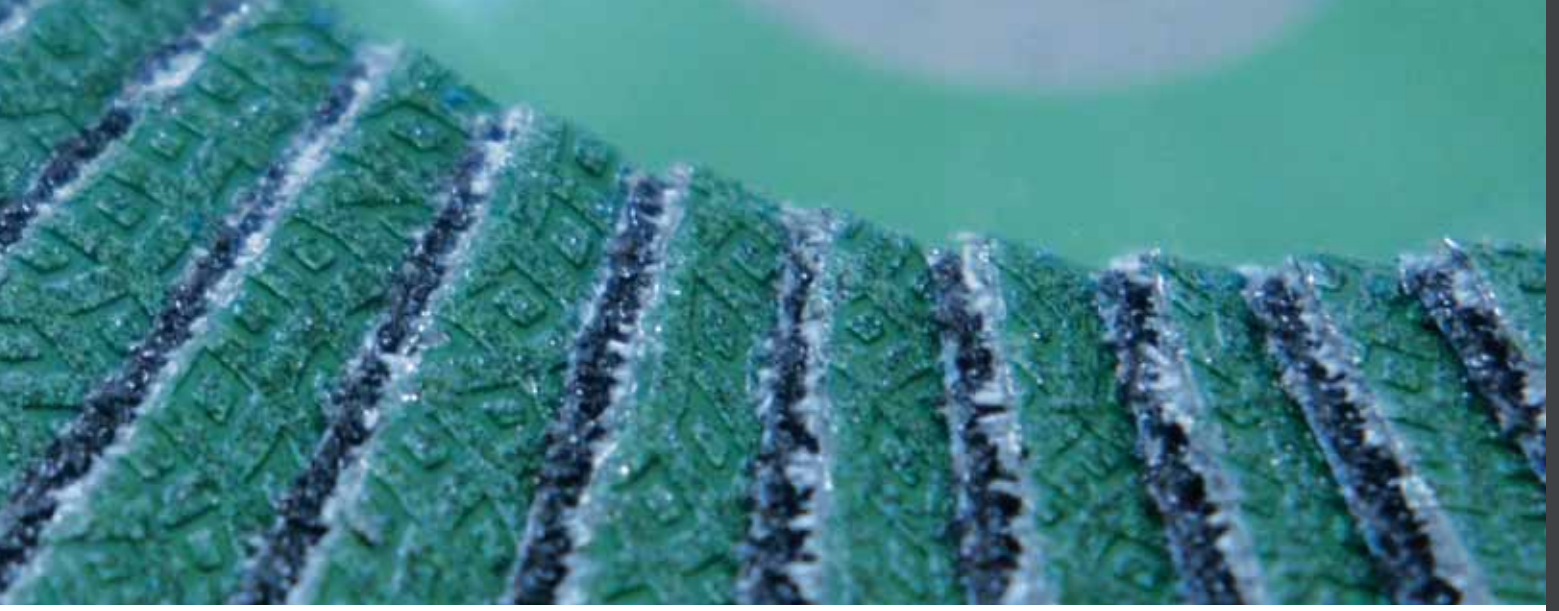
Application
Exceptional long life
Very fast work and high material removal rates.
Can be used on a broad range of materials
Top tool for the best value.



Hybrid T Industrial Solution

Diamond flaps alternated with silicon carbide flaps. For wet & dry use. For grinding granite, composites, marble, limestone and sandstone.

Application
Very fast work
Long life
Easy and comfortable to use,
vibration free!



Grits
Coarse
Medium
Fine

M14



Recommended
speed:

Ø 115mm
6000 to 6500 rpm



1 Disc per box.
KGS box.



Other sizes available
on request.

Grits
60, 120,
200, 400.

PLS



Recommended
speed:

Ø 115mm
6000 to 6500 rpm



1 Disc per box.
KGS box.



Other sizes available
on request.





KGS Custom Solutions


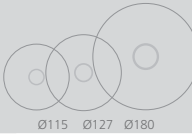




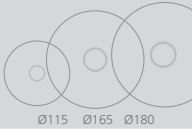





Your job is demanding and your business is unique, so KGS offers a 4 step customizing solution for your product. Choose the disc backer, and all other disc parameters, right up to labelling and packaging options. Custom solutions are guaranteed to make your work easier. Please contact our commercial department for any other possible options.



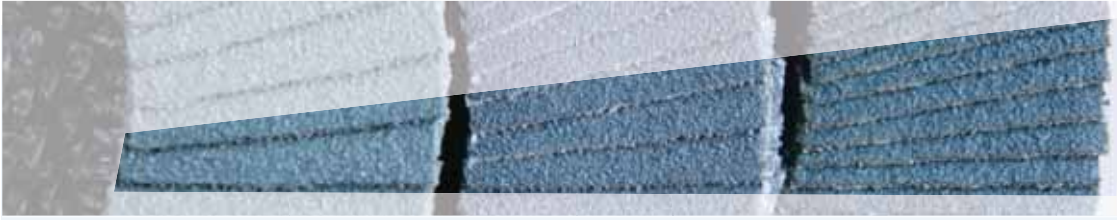
PRODUCT SELECTION




4 STEPS

Step 1 - Choose the backer

	Fiber Glass FG		 Flat  Flat Back Angled Flaps  Angled/ Conic
	Plastic PLS		 Flat  Flat Back Angled Flaps
	Plastic M14		 Flat

Step 2 - Choose the format



	LD - Low Density		SD - Standard		HD - High Density
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Number of flaps per format	Ø115			Ø127			Ø180		
	LD	SD	HD	LD	SD	HD	LD	SD	HD
Grit 36	50	67	100	50	67	94	70	75	120
Grit 40	55	72	100	55	69	94	75	90	120
Grit 60	60	75	110	60	82	96	80	100	150
Grit 80	65	82	120	65	82	100	85	112	150
Grit 100	72	86	125	72	86	105	87	116	155
Grit 120	70	90	130	70	90	110	90	120	160
Flap Size									
Width (mm)	25	25	25	30	30	30	37	37	37
Length (mm)	18	18	18	19	19	19	23	23	23



Step 3 - Choose the cloth



Z Zirconium
ZE ZP ZI

A Aluminum Oxide
AE AP AI

S Silicon Carbide
SP/S SP/G

H Hybrid
Hybrid E & I

D Diamond
Hybrid T & R

Usage Guide

Cloth	Abrasive	Surface polishing	Welding	Metal	Steel	Steel for tools	Stainless-steel	Hard stainless steel	Aluminum	Brass	Plastic	Paint and lacquers	Wood	Stone	Glass
ZI	Zirconium - Ind	○	●	○	●	●	●	○	●						
ZP	Zirconium - Pro	○	●	○	●	●	○	○							
ZE	Zirconium - Eco	○	●	○	●	●	○	○							
AI	Aluminum Oxide - Ind	●	●	●	●	○	○		○	○	○	○	○		
AP	Aluminum Oxide - Pro	●	●	●	●	○	○		○	●	●	○	●		
AE	Aluminum Oxide - Eco	●	●	●	●	○	○		○	●	●	○	●		
SP/S	Silicon Carbide - Pro		●	●							○	●	○	●	
SP/G	Silicon Carbide - Pro										○		○		●
Hybrid E	Zirconium/ Al. Oxide - Eco	●	●	●	●	●	●		○	○	○	○	○		
Hybrid I	Zirconium/ Ceramic - Ind	●	●	●	●	○	○		○	○	○	○	○		
Hybrid R	Diamond/ Sil. Carbide - Pro			●	●	●							●	●	●
Hybrid T	Diamond/ Sil. Carbide - Ind							●						●	

● Main purpose ○ Also possible

Step 4 - Choose a label



KGS label

Cecrops label

Neutral or personalized label.



CECROPS® is an internationally recognised brand for Premium Coated Abrasives made by KGS DIAMOND.



Usage Information



— Cloth
Cloth material and range

— Size
Disc diameter

— Grit
Grit size

— Density
Low (LD), standard (SD) or high (HD) number of flaps

— Barcode

Safety
Basic usage safety indications

According to the EN 13743:2008 standard, the maximum velocity of use should never exceed 80 m/s. or the following RPM:

- Ø 115 mm: 13,300 RPM.
- Ø 125 mm 12,000 RPM.
- Ø 178 mm: 8,500 RPM.

Always use gloves, goggles and ear plugs either on wet or dry use for personal protection. Dust mask should also be used when working dry. Helmets and safety shoes are recommended.



Gloves



Ear protection



Dust mask



Goggles

YOUR LABEL

Private label is available.
KGS can produce to your indications
right up to the label.



Backier:



FG backer

Fiber glass is the standard and most current solution, provides an affordable option for even the toughest works. Available in flat or conic shape to support the abrasive cloth according to the final use.



PLS backer

Produced to be stronger and more resistant than a fiber glass backer, a plastic backer will insure a stable and durable use. Build for all types of use.



M14 backer

Along with the plastic backer capabilities, includes a specific self-cooling design to ensure low temperature while at work. Built in M14 connection for quick change.



Cloth Backing:

Cloth backing material is made either from cotton or polyester, or some combination of the two. Cotton backed materials are acceptable in most general purpose and some heavy duty applications. Polyester or cotton/polyester combination materials tend to be stronger, and as such, may yield longer life in heavy duty applications. Polyester backed materials also have the advantage of being water resistant, so can be used with water as a coolant.

From softer to stronger
light Cotton/ Polycotton/ Polyester



Delivery:

Due to the manufacturing process and quality trials, the quantity delivered can be up to 10% more or less than the original order quantity.

Minimum quantity order for the Diamond line is 30 units.

Minimum quantity order is set to 300 units for all other lines.

Other orders are possible under price adjustment; please contact one of our sales representatives for more information.

Allow 6 weeks for initial order of each product.

Allow 4 weeks for subsequent orders.

Delivery dates are confirmed upon order.



Storage:

The abrasive fabric discs are made of a non-toxic material and, therefore, its management or handling poses no risk.

The flap discs should be stored in a dry, well-ventilated area under the following conditions:

temperature: 18-22 ° C

relative humidity: 45 to 60%

Custom-made dimensions and individual solutions on request
Images shown are provided for illustrative purposes only.

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Official distributor

