

# OLYMPUS ABRASIVES

## 1) CERAMIC cutting discs :



- Application: Carbon steel and stainless steel
- Contaminant-free cutting -  $Fe + S + Cl < 0.1\%$
- Top performers - state-of-the-art ceramic grain

Type ceramic cutting discs are top performers. These wheels offer state-of-the-art ceramic grain for premium cooler cutting with sharper, faster cuts, as well as self-sharpening strength and durability on every rotation. These wheels are excellent for extra sharp power for cutting through sheet metals, stainless steel tubing, pipes and rusted bolts to name a few. Premium value on carbon steel and stainless steel leads us to boast precision performance with high efficiency!

This is the fastest cutting and longest lasting wheel . It tackles every type and cross section of materials with impressive results.

The Ceramic cutting discs with exceptional disc life. The self-sharpening effect of the high-performance abrasive ceramic oxide grain, combined with its special bond technology, ensures these discs maintain their aggressiveness throughout the whole life of the disc. This results in reduced cutting & grinding times plus increased production and thus significant savings in labor costs, when compared to conventional reinforced cutting & grinding wheels. Moreover, it also allows the process to be performed with less effort helping to drastically reduce operator fatigue.

## Features:

Abrasive Ceramic oxide abrasive grain CO, manufactured without the addition of ferrous, chlorinated or sulphurous fillers.

Typical applications include surface grinding, weld seam removal, weld prep chamfering, deburring and grinding back root seams.

Can be used on both Steel and Stainless steel (Inox) materials.

Recommendations for use on high-powered angle grinders for the optimum performance.

## Description

Low power consumption

High cutting speed and removal rate

Outstanding lifetime

More economic with less down time

- Excellent cutting speed = high productivity
- Lowest energy input = sparing man and machine
- Clean, burr-free cut = less rework
- Cool cutting without thermal blueing = less rework
- Excellent lifetime = reduced disc consumption

Ideal for users from pipeline engineering and construction, shipyards, metal engineering, foundries, commercial vehicle construction, steel construction, plant engineering, crane construction, construction machine production.

## Product Details

- Ceramic mineral is a top-performing abrasive and effective on many materials including carbon steel, stainless steel and exotic alloys
- Dense construction of the wheel allows long life
- Fiber reinforced construction optimizes safety and durability
- Wheel must have a maximum operating speed greater than or equal to the maximum speed of the power tool used

The extra sharp cutting power of ceramic grain combined with reinforced fibers throughout this wheel swiftly meet the challenge of cutting into or removing metal. This wheel offers precision performance on carbon steel as well as stainless steel.

### **Sharp Ceramic Wheel Offers Premium Performance**

Rigid and fast-cutting, Ceramic Cut-Off Wheel rapidly accomplishes tough tasks such as cutting through auto body or marine sheet metal, stainless steel tubing and exhaust pipes; and removing clamps, shafts and rusted bolts. A ceramic wheel is ideal for operations where efficiency and value rely on premium performance.

### **Using a Cut-Off Wheel**

Unlike abrasive discs, which shape or sand objects using the disc surface, cut-off wheels cut through the workpiece using the outer edge of the wheel. Cut-off wheels run on a high speed cut-off tool (sold separately) and must always be used with a wheel guard for safety. **THE TOOL USED MUST NOT EXCEED THE MAXIMUM OPERATING SPEED OF THE WHEEL.**

### **Ceramic Mineral for a Sharper, Faster Cut**

This ceramic wheel contains abrasive mineral throughout the wheel to keep the edge cutting sharp with fresh mineral on every rotation. Ideal for heavy stock removal, ceramic abrasives not only fracture into sharp points that cut exceptionally fast, but they are formulated with the stability needed to withstand intense heat and stress applications.

With Ceramic cutting discs, there's no more compromise when cutting the toughest metals. Now you can maximize your time on the job with a superior combination of life and cut rate for maximum productivity. Self-sharpening and cool cutting, ceramic grains remove material effortlessly while a hard bond keeps working longer. The flat profile and low wheel thickness allows for deep cuts on tubes, bar stock, and large cross sections.

Ceramic grains utilize a crystalline structure that is designed with millions of fracture points that self-sharpen at a higher rate than other grains. The result is a higher material removal rate, faster cutting speeds, cooler grinding, and reduced friction at less pressure which reduces operator fatigue.

For those that put a premium value on getting work done faster and optimizing cutting wheel usage on an angle grinder, PEGASUS Ceramic delivers.

## **FEATURES AND BENEFITS**

Cool cutting ceramic grains cut at lower temperatures and with less friction, reducing heat discoloration of the work piece.

Less pressure is required to achieve consistent material removal rate for over the life of the wheel, reducing operator fatigue.

Contaminant-free wheels offer a worry-free solution for stainless steel applications.

Dual reinforcement provides added strength for aggressive cutting.

Smooth outer layer reduces friction that translates to an effortless cut and less kickback during operation.

Open arbor offers a cost-effective mounting option when using adapting nuts.

Best for use on steel, stainless steel, tool steel, inconel, high nickel alloy, titanium, armored steel.

## In conclusion :

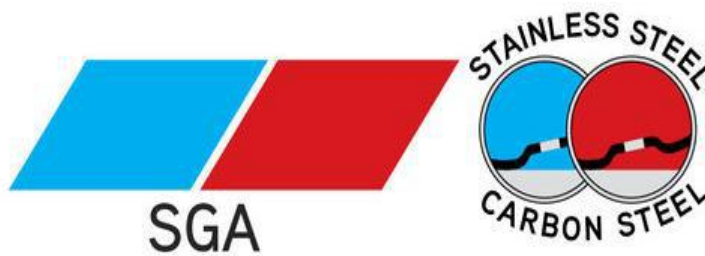
This cutting disc with ceramic grain is perfect for the highly productive cutting of steels. Thanks to the fast but cool cutting, they can machine stainless steel without any blue discoloration whatsoever. This cutting disc delivers precise cuts at a high cutting speed combined with a low cutting temperature, and offers maximum tool life thanks to its innovative bonding technology. Strong glass-fibre fabric and regular testing ensure high level of safety and lateral stability.

Thanks to the self-sharpening effect of the innovative ceramic abrasive grain, this cutting disc always stays perfectly sharp. During use, ceramic particles break off and make space for new ones with sharp cutting edges. That is what allows this highly versatile tool to achieve very high stock removal with little force required, consistently over the tool service life and with impressive durability. Tool replacement is significantly reduced – lowering tool costs. Hardened surfaces, wear-resistant steels, scale and hard coatings, titanium alloys and reinforced weld seams are no problems and can be machined quickly. When in use, the cutting disc generates low odor and dust levels, and allows for ergonomic working and maximum operating times with minimum effort.

Thanks to the premium quality raw materials, it offers maximum storage times with top quality stability. This cutting disc is manufactured in an environmentally friendly manner using state-of-the-art production processes and optimized formulations .



## 2) CERAMIC GRINDING DISCS :



### **FASTEST METAL GRINDING TOOL IN THE INDUSTRY UNMATCHED PERFORMANCE**

Rapid material removal and cool grinding for improved productivity

- Application: Stainless steel and carbon steel
- Weld bead removal
- Surface grinding
- Edge grinding and deburring
- Chamfering and beveling
- Flame-cut steel removal
- State-of-the-art ceramic grain

Discs utilize the latest ceramic abrasive technology for maximum service life with cool and rapid material removal.

**100% MORE AGGRESSIVE** than a standard aluminum oxide grinding wheel. This unique product design combines the toughness of a grinding wheel and the rapid material removal of a resin fibre disc. Superior ergonomic modified Type 27 angle design provides greater disc contact area on the work surface than competitors providing the best solution when safety, speed and material removal is your primary goal.

**70% LIGHTER** than a conventional grinding wheel. Reduced vibration through lightweight construction allows for an enhanced grinding experience and less operator fatigue.

#### **Benefits:**

- Rapid material removal and cool grinding for improved productivity

- More comfortable working angle designed to enhance surface work area and increase disc life
- Delivers ease of use - unparalleled productivity
- Up to 50% reduction in process time with increased safety
- Reduction of noise, dust and operator fatigue
- Quickly mounts to angle grinder and reduces set-up time

Depressed center Type 27 ceramic grinding wheels are top performers. These wheels offer state-of-the-art ceramic grain with self-sharpening strength and durability on every rotation. These wheels are perfect for heavy-duty production applications providing longest life and ease of use - the best workers' wheel!

#### Features:

Abrasive Ceramic oxide abrasive grain CO, manufactured without the addition of ferrous, chlorinated or sulphureous fillers.

Typical applications include surface grinding, weld seam removal, weld prep chamfering, deburring and grinding back root seams.

Can be used on both Steel and Stainless steel (Inox) materials.

Recommendations for use on high-powered angle grinders for the optimum performance.

#### Applications

- Recommended for very fast, rough removal where efficient progress is more important than surface finish
- Grinding and deburring metals
- Weld preparation or cleaning
- Highest quality ceramic aluminum oxide grain assures consistent high stock removal for tough applications
- All sizes are made with uniform grain throughout, no filler grain used
- All wheels are internally reinforced with the highest quality fiberglass for maximum safety
- With **Ceramic type 27** depressed center grinding wheels, now you can maximize your time on the job with a superior combination of life and cut rate for maximum productivity. Self-sharpening and cool cutting, ceramic grains remove material effortlessly while a hard bond keeps working longer. The flat profile of

the wheel in combination with depressed center allows for a wide range of grinding angles (0-45).

Ceramic grains utilize a crystalline structure that is designed with millions of fracture points that self-sharpen at a higher rate than other grains. The result is a higher material removal rate, faster cutting speeds, cooler grinding, and reduced friction at less pressure which reduces operator fatigue.

For those that put a premium value on getting work done faster and optimizing grinding wheel usage on grinders, PEGASUS Ceramic delivers

Triple fiberglass reinforcement provides added strength for aggressive stock removal.

Best for use on steel, stainless steel, tool steel, inconel, high nickel alloy, titanium, armored steel.

#### More info regarding CERAMICS

Conventional ceramic granules are uneven in shape and size. Thus, during grinding, the grains dig the metal equally unevenly creating a wild surface at higher temperatures. This quickly slows the efficiency of the disk and drastically reduces its strength. The perfectly symmetrical triangular Ceramic granules with which the PEGASUS discs have been manufactured have the characteristic of continuously creating new strong edges that cut the metal like a soft butter.

The homogeneity of the construction gives stable grinding and cutting lines, allowing the trays to not raise the temperature. This lasts longer in every application.



# FLEXIBLE GRINDING DISCS : GREEN LINE

Our flexible 4 ,5 & 5 inch grinding disc , are the perfect product for difficult grinding operations on curved surfaces requiring a high level of finish. They have as a moderate level of flexibility which makes it a great choice for finishing metal surfaces, grinding corners, and curved surfaces. With a high level of attack and with a optimal balance between aggression and disc life, PEGASUS FLEXIBLE discs are a favorite amongst metal workers looking for a highly versatile grinding disc.

Are especially suited for use on steel and stainless steel, in all major surface grinding applications, particularly those on curved surfaces.

This product has a depressed center and can be used with most standard handheld angle grinders.

- Moderate level of flexibility
- High level of finish
- Engineered with focus on safety

The semi-flexible sanding disc with its specialized waffle structure ensures cool grinding and prevents material discoloration.

## **Application areas**

**Steel, stainless steel (INOX), NE metals (copper, brass, bronze, aluminum).**

## **Properties**

**Thanks to the modified waffle structure, chips are removed even more effectively and the build-up of heat is avoided. Due to the low weight and flexible design, the disc runs smoothly, with less noise and reduced vibrations.**

## **Benefits**



- No support plate required
- Suitable for use in several materials
- New waffle design (cool grinding)
- Suitable for curved surfaces
- Simple application
- High cutting ability
- Long service life
- No discolouration of material

#### Features

- Ideal for stainless steel thanks to the heat-reducing structure of the disc surface
- Low vibration
- Contamination-free

#### Applications

- Grinding stainless steel
- Grinding curved surfaces
- Light-duty grinding
- Cool grinding

These PEGASUS “flexible” grinding discs are only 3mm in thickness - a big advantage, making them much easier to guide with less vibration and noise. Ideal for curved surfaces they will give a very smooth finish. Cooling ribs on the disc also help avoid color markings on the material being ground. Available in 115mm or 125mm disc size.

#### Key Features

- Thin grinding disc only 3mm
- Less vibration and noise
- Ideal for curved surfaces
- Very smooth finish
- Cool grinding

#### **GRINDING, SHAPING, FINISHING OR SANDING... ONE WHEEL DOES IT ALL!**

Abrasive flexible grinding wheels combine the benefits of depressed center grinding wheels, resin fiber discs (sanding discs) and flap discs into one revolutionary product.

Flexible wheels are extremely versatile

Flexible grinding wheels combine the benefits of traditional fiber discs, grinding wheels and flap discs to produce a product that is truly versatile and capable of meeting all your grinding, shaping, finishing or sanding needs.

### Increase grinding surface area

Because of their flexibility, there is more wheel surface on the material being ground, making for faster grinding efficiency.

### Superior surface finish

When a smooth finish is important and contours and corners have to be blended, flexible wheels get the job done.

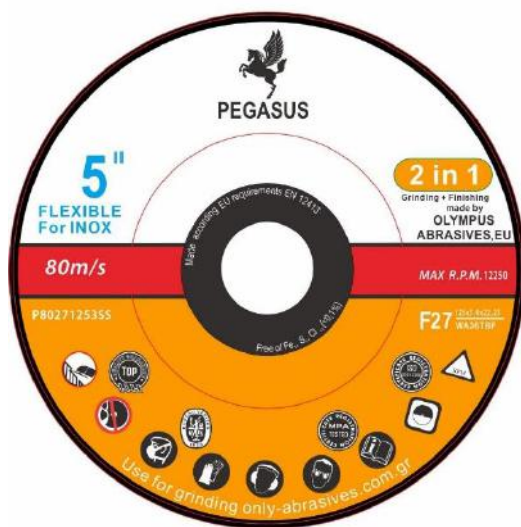
### Less vibration

A flexible grinding wheel absorbs vibration resulting in less fatigue and downtime.

### Exclusive non-woven reinforcement

Abrasive flexible wheels are double-reinforced with a top layer of non-woven fabric and an internal layer of reinforcing cloth. This adds the element of safety and stability to the wheel.

- For ferrous metals; iron, steel, and stainless steel.
- Flexible construction.
- Special Aluminum oxide.(WA)
- 30 angle.
- T-27.



## Our STANDARD LINE ( BLUE line & YELLOW ) :

For industrial use & DIY sector our old traditional types ,very well known in market and with HOT SALES,,,, !.

Our Blue line made with special ALOX grains , in form of metal & inox (2in1) in small diameters like 75mm until 125mm and only metal the bigger diameters 150mm until 350mm .

Our Yellow line made with Zirconia grains , special for INOX .

