

THE PEARL MAXIDISC™ SYSTEM

CHOOSE THE MAXIDISC THAT IS RIGHT FOR YOU!

1. APPLICATIONS

2. ABRASIVE MATERIALS

3. DISC CONFIGURATIONS

4. HUB BACKING TYPES

When choosing a Maxidisc™ there are a number of things that you need to consider. The grain type for the job application, the abrasive material and shape used in the manufacturing of the Maxidisc™. Pearl Abrasive uses only top quality grains and backing materials.

APPLICATIONS

Pearl Abrasive offers an assortment of Maxidiscs™ for specific applications on a variety of materials.

- Stainless Steel • Carbon Steel
- Sheet Metal • Iron
- High Tensile Alloys
- Food and Dairy Equipment

CHOOSE YOUR APPLICATIONS

GENERAL USES

ABRASIVE MATERIALS

- Pearl Abrasive uses only the best abrasive grains and backing material for our Maxidiscs™.
- We only use 100% polyester or a combination of polyester/cotton, NEVER PAPER.
- Pearl's unique way of embedding the grains to a durable polyester or polyester/cotton backing results in a construction that provides superior performance and life.

CHOOSE THE GRAIN

Choose the grain type specific to the job, meaning the material that is being worked on, in order to have the best outcome. Each abrasive grain has a specific fracturing characteristic making it useful for grinding operations on specific materials. As the disc comes in contact with the work piece the surface grains wear away exposing new sharper grains. This constant fracturing away produces the finished product.

MATCH THE GRIT TO YOUR APPLICATION

DISC CONFIGURATIONS

Pearl Abrasive offers a variety of flap configurations for specific applications. Variables to consider in overall flap configuration are:

- Flap Angle - For flexibility.
- Disc Shape - For aggressiveness.

CHOOSE YOUR FLEXIBILITY

CHOOSE YOUR SHAPE

HUB BACKING TYPES

CHOOSE YOUR HUB BACKING

- POLISHING
- GRINDING
- STOCK REMOVAL

- WELD BLENDING
- CLEANING
- FINISHING

- EDGE CHAMFERING
- BURR REMOVAL
- SANDING

- DEFLASHING
- PAINT REMOVAL

- Building construction
- Air ducts
- Food equipment fabrication
- Stainless steel fabrication
- Liquid storage tank fabricators

- Mold and die polishing
- Elevator manufacturers
- Fiberglass boat building/repair
- Sheet metal fabricators
- Bridge builders

- Paint removal
- Railroad car builders
- Enclosure manufacturers
- Construction equipment sales/repair
- Propeller manufacturers

- Fire sprinkler manufacturers
- Dairy equipment manufacturers
- Truck and car body fabrication
- Ornamental iron shops
- Aircraft manufacturers

ALUMINUM OXIDE



Premium Blue-fired, Friable Aluminum Oxide with active grinding agent.

The wedge shape of this tough grain is made for **long life and stock removal**. The cutting edges work great for grinding and cutting:

- Ferrous metals.
- Iron.
- Steel.

ZIRCONIA



100% Zirconia with active grinding agent.

This extremely tough and sharp grain is made for **high stock removal**. Long life and cool running are characteristics of the high performance grain. Its constant self-sharpening edges work well on:

- Ferrous metals.
- Stainless steel.
- Other high tensile alloys.

SILICON CARBIDE



Manufactured crystalline compound with active grinding agent.

A very hard and sharp abrasive grain that allows for very **fast stock removal** and at the same time runs cool. Silicon carbide grains work well with very light pressure. This grain is made to work well on:

- Stone, concrete, marble and granite.
- Non-ferrous metals such as aluminum, bronze as well as glass.

ZIRCONIA FOR STAINLESS STEEL



Proprietary zirconia with special active grinding agent.

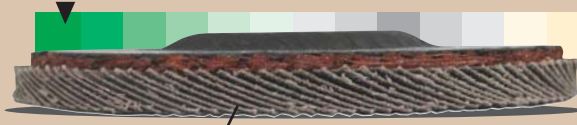
This special grain was developed for **superior work on stainless steel**.

The mixture of zirconia and aluminum oxide was developed to avoid overheating, glazing and discoloration. It has exceptional stock removal properties.

- Stainless steel.

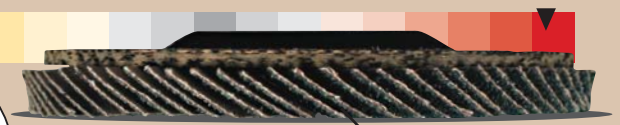
GRIT	COARSE GRINDING			COARSE FINISH		MEDIUM FINISH				FINISH		FINE FINISH	
	24	36	40	60	80	100	120	150	180	220	320	400	600
Removal of heavy duty welding bead	[Active]												
Grinding on structural steel	[Active]												
Removal of imperfections	[Active]												
Rust removal and surface preparation	[Active]												
Mold and die polishing	[Active]												
Removal of burr and flash	[Active]												
Blending	[Active]												
Clean Finish	[Active]												

LESS FLEXIBILITY STOCK REMOVAL/GRINDING



Discs with less flexibility are designed for aggressive stock removal. Discs with low flexibility are excellent for grinding where a lot of material needs to be removed.

HIGH FLEXIBILITY SANDING/BLENDING



Discs with high flexibility are designed for light grinding, sanding, blending, and finishing. Highly flexible discs are also ideal for increased flexibility when working on uneven or curved surfaces.



TYPE 29

Use Type 29 Maxidiscs™ for the maximum aggressiveness and full use of each flap when grinding at an angle.



TYPE 27

Use Type 27 Maxidiscs™ for smooth grinding, blending and increased flexibility.



TRIMMABLE



NON-TRIMMABLE