

Product Guide Knife Manufacturing





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Our Company

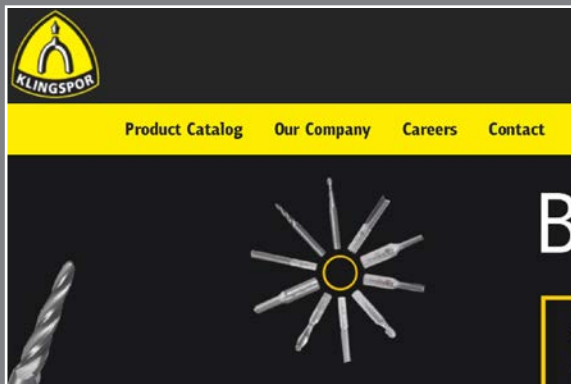


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Your Advantages

Great Product Range

KLINGSPOR is a manufacturer of sanding and grinding products for over 125 years. The US headquarters in North Carolina offers high quality products for industrial applications including more than 100,000 tools for all your abrasive needs since 1980 - no matter which materials you need to work on.

Manufacturing in Europe & USA

Buying directly from us will save your money and guarantees professional product support, because we offer seamless control of all production steps - from raw material to final product. Our company is ISO 9001: 2015 certified, which guarantees consistent quality and continuous improvement of products and processes.

Service

You will realize superior value with our combination of a great product line, a team of technical specialists and our factory-trained sales representatives in major areas throughout the US helping you find the best product for your application.

Efficient order processing with our automatic carry-pick system, fast shipping from one of two factories close to you and prompt delivery are only a few other promises we make.

Safety

KLINGSPOR is a founding member of the oSa.

The Organization for the Safety of Abrasives is a voluntary association of abrasive manufacturers. All members commit to adhering to all European safety standards applicable to abrasive tools and to promote and enforce stricter production and testing regulations.

As an expression of their voluntary commitment, the oSa awards a quality seal that is protected worldwide. To the user, this translates to increased safety during use and a lower liability risk.



The 7 criteria that guarantee oSa safety

- ▶ Voluntary commitment of the manufacturer
- ▶ Testing facilities and expertise under the manufacturer's roof
- ▶ Certified quality management including documented processes
- ▶ Independent product tests
- ▶ Independent safety audits performed by external auditors
- ▶ Regular production monitoring and control
- ▶ Safety of products can be tracked all the way back to the manufacturer



Safety Products

KLINGSPOR offers a complete line of high quality safety products to fit most sanding and finishing applications.

A diverse group of safety glasses is available along with all types of hearing protection, respiratory protection, and head and face protective devices.

Make sure you use the proper safety equipment for a happier, healthier work environment.



Our Product Range

Coated Abrasives

Belts

KLINGSPOR has long been a leader in the production of tear-resistant abrasive belts. Our wide product range offers various different sizes and materials for finishing and polishing applications.

Custom Sizes Available

Popular Sizes:

- ▶ 2 x 48"
- ▶ 2 x 72"
- ▶ 1 x 30"

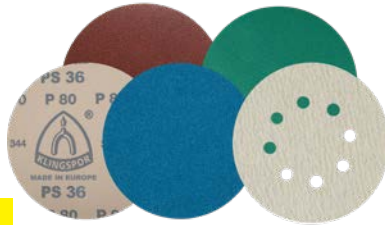


Discs

Our high-quality coated abrasives are also used for our sanding discs. We offer discs with PSA, Kling-on® Hook & Loop or plain backings in a variety of sizes.

Popular Sizes:

- ▶ 9"
- ▶ 12"



Custom Hole Patterns available

Sheets

Cloth and paper sheets in Aluminum Oxide, Silicon Carbide or Alumina Zirconia are most effective for blending, scale and rust removal. All standard materials are available in sizes:

- ▶ 9 x 11" ▶ 4-1/2 x 5-1/2"
- ▶ 3-2/3 x 9" ▶ 4-1/2 x 11"



Rolls

Rolls are available in widths 1- 4" with lengths of 10, 25, 50 or 100 meters. Plain, Kling-on® Hook & Loop and PSA backings available.



Technical Information

Abrasive Grains

Aluminum Oxide

A blocky, hard grain, best suited for sanding and grinding ferrous and non-ferrous metals, wood and solid surface materials.

Silicon Carbide

A sharp, very hard and brittle grain that works best on glass, plastics, rubber, ceramics and solid surface materials.

Alumina Zirconia

A very hard and sharp grain for applications on stainless steel, spring steel, titanium and other hard metals.

Ceramic

An exceptionally hard, strong and sharp abrasive, that is mostly used for super alloys and stainless steel.

Backings

JF	Light weight cotton
J	Light weight cotton
XF	Heavy cotton
X	Heavy, stiff cotton
YX	Light polyester
Y	Standard polyester
YY	Very heavy, stiff polyester

A	Very light weight paper
C	Medium weight paper

Open vs. Closed Coat

Closed coat means, that 100% of the backing is covered with abrasive grain. This provides highest aggression and finest finish.

50-70% of the backing is covered with open coats. This leads to a reduced amount of sanding refuse trapped between grains, increasing the lifetime of your abrasive.

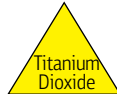
Available Materials

LS 309

Aluminum Oxide | J or JF cotton | Closed Coat | 60-600 Grit

- ▶ Ferrous & Non-Ferrous Metals ▶ Hardwoods
- ✓ Highly flexible belt, that contours perfectly to highly profiled workpieces
- ✓ Equally suited for rough, intermediate and finish sanding
- ✓ First-rate stock removal

Availability: Belts, Rolls



CS 310

Aluminum Oxide | X cotton | Closed Coat | 24-600 Grit

- ▶ Ferrous Metals ▶ Aluminum ▶ Alloys
- ▶ Leather ▶ Stainless Steel

- ✓ Tear-resistant, long lasting material
- ✓ Stability and good removal rate
- ✓ Dry rough and calibration sanding on edges and surfaces

Availability: Belts, Rolls



LS 312

Aluminum Oxide | JF cotton | Semi-open Coat | 80-400 Grit

- ▶ Stainless Steel ▶ Ferrous Metals
- ▶ High Alloy Steel ▶ Non-Ferrous Metals

- ✓ Special top coat to aid in cooling and resist loading
- ✓ Very flexible backing for severely contoured workpieces
- ✓ Outstanding stock removal

Availability: Belts, Rolls

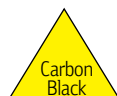


KL 361

Aluminum Oxide | JF cotton | Closed Coat | 40-600 grit

- ▶ General purpose use on wood and metal
- ✓ Exceptional quality and suitability for universal use
- ✓ Highly adaptable, allows for precise grinding
- ✓ Equally suited for coarse grinding and finishing

Availability: Rolls



Technical Information

Skipping Grits

Do not skip more than 1 grit in your sanding process. Each grit is supposed to erase the scratch pattern of the previous grit and replace it by a smaller one. If you skip more than one grit, you take the tips off the peaks that the previous grit left on the surface and leave behind the big scratches. This results in an uneven surface.

Waterproof Abrasives

Our abrasive materials, that are made with 100% polyester backing can be run wet. Be careful, some other materials are just washable.

Belt Sizes

Make sure you know which size of belts you need for your machine. KLINGSPOR manufactures custom size cloth belts if needed.

A video on how to measure your old belt correctly can be found on our Youtube channel (KLINGSPOR Abrasives USA).

CS 411

Alumina Zirconia | X cotton or Y Polyester | Closed Coat | 24 - 120 grit

- ▶ All types of metal
- ✓ High pressure, heavy stock removal
- ✓ Wet and dry use
- ✓ Reliable and long lasting material during sanding of contoured surfaces

Availability: Belts, Rolls

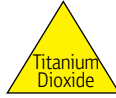


CS 910

Ceramic | Y polyester | Close Coat | 24-80 Grit

- ▶ Titanium
- ▶ Stainless Steel

- ✓ Enhanced grinding performance and cool surface during use due to multibond lubricant
- ✓ Outstanding durability
- ✓ High stock removal



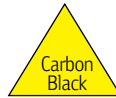
Availability: Belts, Discs

PS 11

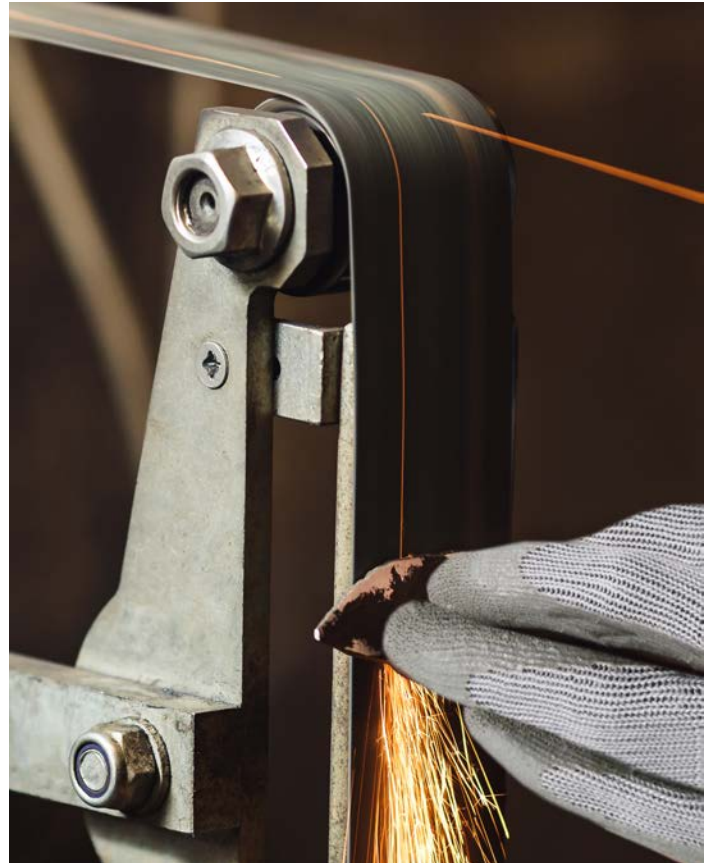
Silicon Carbide | A or C Paper | Close Coat | 60-2000 Grit

- ▶ Plastics
- ▶ Carbon Fiber
- ▶ Rubber
- ▶ Handle Materials

- ✓ Ideal for hard and tough material surfaces
- ✓ Water resistant
- ✓ High adaptability and stability



Availability: Discs, Sheets



Non-woven Abrasives

Our non-woven nylon abrasives have advantages over regular coated abrasives in certain applications. Heavy, scrim-backed materials for belts and discs are available to meet the most stringent needs of metalworking operations from aluminum to stainless steel.

You can achieve a variety of finishes by the different "grit" selections: coarse, medium and very fine. Lighter non-woven materials are also offered in general purpose, ultra fine and no abrasive versions.

Applications:

- ▶ Surface Conditioning
- ▶ Buff n Blend
- ▶ Cleaning and Polishing
- ▶ Edgewear



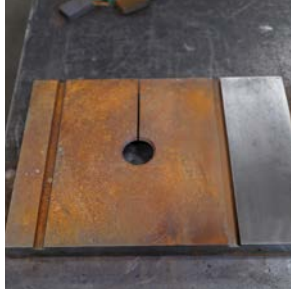
Availability:

Discs, Belts, Handpads, Rolls, Brushes, Flap Brushes and Quick Change Discs in various sizes.

Sandflex Rust Remover

Sandflex Handblocks are multi-purpose scrub blocks that are ideal for rust removal, cleaning and polishing jobs in your shop or around the house.

- ▶ Tools & Machinery
- ▶ Shop Equipment & Interior
- ▶ Household Items
- ▶ Sporting Goods
- ▶ Gardening Tools



Availability:

- ▶ Coarse, Medium & Fine
- ▶ Single Blocks or Cases

Accessory

Cleaning Sticks



Buffing Wheels & Compound Bars



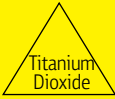
Dynabrade Tools



Warnings:

for more information, go to www.P65Warnings.ca.gov

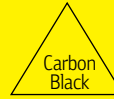
Products mentioned in this catalog have one or more of the following warning labels, that apply to them according to their ingredients.



WARNING: This product can expose you to Titanium Dioxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

ADVERTENCIA: Este producto puede exponerle a Dióxido de titanio, que es conocido por el Estado de California como causante de cáncer. Para mayor información, visite www.P65Warnings.ca.gov.

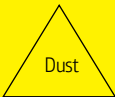
- ▶ LS 309
- ▶ CS 310
- ▶ LS 312
- ▶ CS 411
- ▶ CS 910



WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

ADVERTENCIA: Este producto puede exponerle a productos químicos, incluido el negro de humo, que el estado de California sabe que causa cáncer. Para obtener más información, vaya a www.P65Warnings.ca.gov.

- ▶ KL 361
- ▶ PS 11



WARNING: Dust created by deburring, sanding, sawing, drilling, cleaning, and brushing activities can contain chemicals that are known by the state of California to cause cancer and birth defects or other reproductive harm. Avoid inhaling particle dust or use a dust mask or other safeguards for personal protection. For more information, go to www.P65Warnings.ca.gov.

ADVERTENCIA: El polvo creado por las actividades de desbarbado, lijado, aserrado, taladrado, limpieza y cepillado puede contener sustancias químicas que el estado de California sabe que causan cáncer y defectos de nacimiento u otros daños reproductivos. Evite inhalar polvo de partículas o use una máscara de polvo u otras protecciones para la protección personal. Para obtener más información, vaya a www.P65Warnings.ca.gov.

- ▶ Non-woven Products



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