

POLINOX non-woven mounted grinding wheel PNL dia. 50x30 mm shank dia. 6 mm A180 for fine grinding and finishing



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POLINOX mounted grinding wheels consist of non-woven polyamide abrasive, into which abrasive grain is integrated. The non-woven abrasive flaps are arranged radially. A long tool life is achieved through the dense packing of the flaps. The tool is particularly used for surface work.

Technical information

Abrasive	Aluminium oxide A
Dia. external	50 mm
Dia. shank	6 mm
Grit size	180
Length, shank	40
Max. RPM	12000 RPM
PFERD TOOLS type	PNL 5030/6 A 180
RPM, optimum	6000 RPM
Width	30 mm

Advantages

- ✔ Highly flexible, enabling optimal adjustment to the contour.
- ✔ Cool grinding and low thermal load on the workpiece.
- ✔ The open structure and high flexibility of the non-woven material prevents tool clogging.

Recommendations for use

- ✓ For the best results, use at a recommended cutting speed of 10-20 m/s. This provides an ideal compromise between stock removal rate, surface quality, thermal load on the workpiece and tool wear.

Safety notes

- ✓ The maximum permitted peripheral speed is 32 m/s.
- ✓ For safety reasons, the maximum permitted rotational speed indicated must never be exceeded.

Materials that can be worked

- ✓ Aluminium
 - ✓ Brass
 - ✓ Bronze
 - ✓ Cast steel
 - ✓ Cobalt-based alloys
 - ✓ Copper
 - ✓ Fibre-reinforced thermosetting plastics (GRP, CRP)
 - ✓ Hardened, heat-treated steels over 1.200 N/mm² (< 38 HRC)
 - ✓ Nickel-based alloys (e.g. Inconell and Hastelloy)
 - ✓ Stainless steel (INOX)
 - ✓ Steel materials with a hardness > 54 HRC
 - ✓ Steels up to 1,200 N/mm² (< 38 HRC)
 - ✓ Thermoplastics
 - ✓ Titanium
 - ✓ Titanium alloys
 - ✓ Zinc
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Applications

- ✓ Cleaning
 - ✓ Deburring
 - ✓ Roughening
 - ✓ Step-by-step fine grinding
 - ✓ Structuring (matt finishing, brush matting and satin finishing)
 - ✓ Surface work
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Drive types

- ✓ Drive spindle
 - ✓ Flexible shaft drive
 - ✓ Straight grinder
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