

Highlights

- Suitable for metals as well as hard materials, ceramics, and workpieces with sharp edges
- Very good lifetime and economy compared to the competition
- Cleaner than lapping with grinding suspensions
- High flatness, surface quality, and precise edges

Diamond grinding pad

SQUADRO-M/SQUADRO-H

SQUADRO-M and SQUADRO-H are innovative diamond grinding pads that extend fine grinding to single-micron grit sizes. They replace conventional lapping processes, achieving superior results in terms of material removal rate, surface quality, workpiece geometry, and lifetime. SQUADRO diamond grinding pads provide an easy, clean, and efficient fine grinding process.

Typical applications

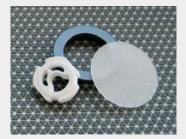
SQUADRO-M: Fine grinding of metals

SQUADRO-H: Fine grinding of hard materials, ceramics and sharp-edged

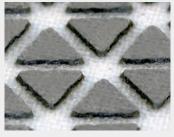
workpieces

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PUREON



Diamond grinding pad SQUADRO.



Close-up on grinding pad SQUADRO.



Pureon offers a wide range of customized solutions. Get in touch with us.

Product specifications

Abrasive layer thickness..... 0,4 mm

Bond type SQUADRO-M: Resin, medium hard

SQUADRO-H: Resin, hard

Carrier material Textile base

Order information

Order code SQUADRO-H 30-OD300mm-PU1-PSA-D1

O Diamond size 3 μm, 6 μm, 15 μm, 30 μm, 60 μm

(125 µm only SQUADRO-H)

Packing unit1 piece / box

Backing / mounting.....PSA (self-adhesive)

SGM (metal plate)

MAG (magnetic foil)

© Drawing index optional

Application recommendations

Dressing Prior to the first use, the SQUADRO-M and SQUADRO-H pads have to be dressed and planarized with a dressing tool (e.g. Al₂O₃ with grit 280 mesh (grit size 60 μm, 125 μm) or 400 mesh (grit size $3 \mu m$, $6 \mu m$, $15 \mu m$, $30 \mu m$)).

Cleaning To ensure cutting efficiency of the bonding, the grinding pad has to be cleaned of abrasive debris regularly. Best suited for this are brass brushes for manual or machine use. Machine brushes can be

ordered from Pureon as accessories.

Coolant SQUADRO-LUB+ is recommended and a water-

> soluble cooling and lubricating fluid that ensures high and consistent material removal. DI-water is only partly suited. No dry running. Organic solvent and oil-based lubricants may harm the pad and are

therefore not recommended.

Grinding parameters

Grinding pressure Recommended: 2 – 10 N/cm2, max. 15 N/cm2

Circumferential speed Recommended: 5 m/s, max. 10 m/s

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