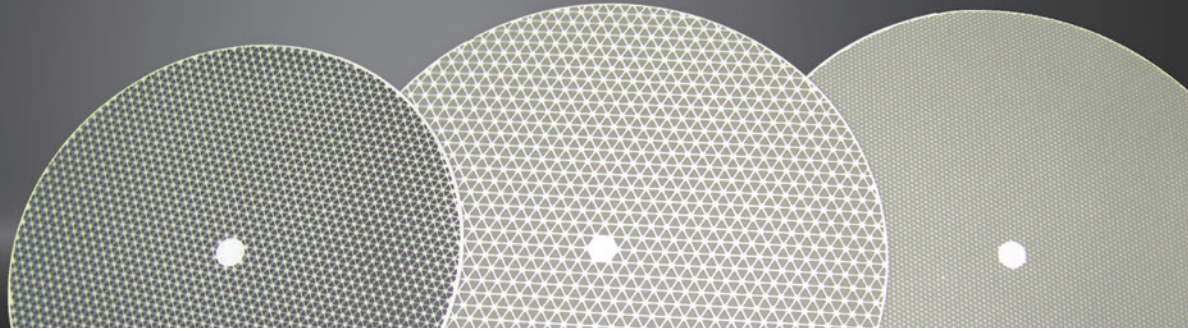


PUREON

Grinding pads and wheels



Diamond grinding pad

SQUADRO-G

Resin bond diamond grinding pad for glass, glassy materials and ceramics

SQUADRO-G is an innovative and highly efficient diamond grinding pad suitable for fine grinding of optical glass, BK7, fused silica, glass-ceramics as well as crystalline and brittle glassy materials. SQUADRO-G generates a high and consistent removal over its entire life time as well as impressive surface qualities and edge sharpening. Thanks to its long life time and easy handling, SQUADRO-G is an economical and efficient alternative to thin abrasive films or conventional lapping processes.



Glass wafer, type BK7

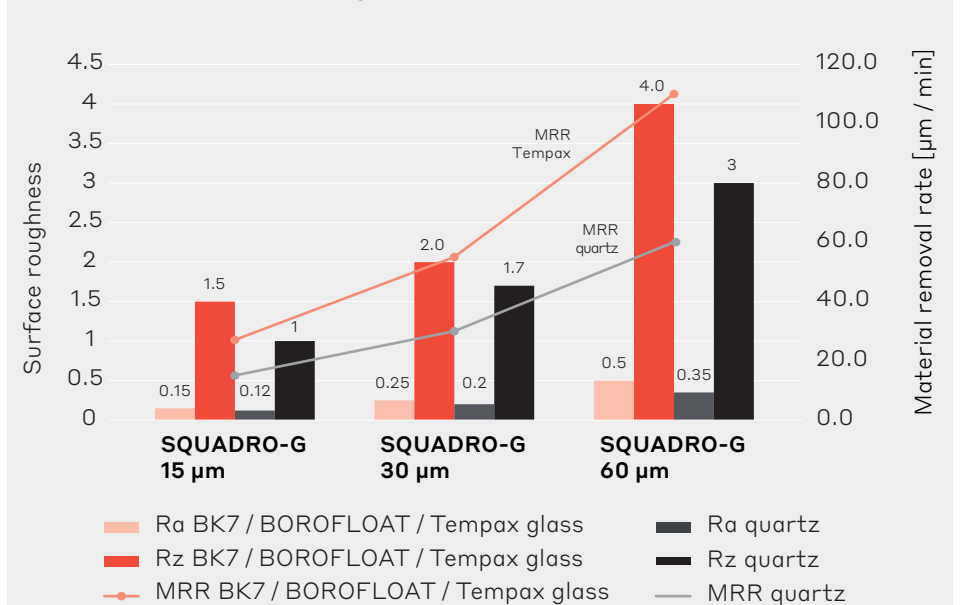


SQUADRO-G grinding pad

Product specifications

- Diameter200 – 760 mm one-piece
for bigger diameters multi-piece
- Diamond size3 µm, 6 µm, 15 µm, 30 µm, 45 µm, 60 µm
- Abrasive layer thickness..0.4 mm, optional 0.8 mm
- Bond typeresin, triangular structure
- Carrier material.....polycarbonate
- Backing / mounting.....self-adhesive, magnetic foil or metal plate

Performance SQUADRO-G B4B7Q
BK7 / BOROFLOAT / Tempax glass / Quartz



Contact

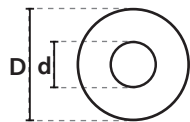
sales@pureon.com
www.pureon.com/sales-contacts

Order information

Packing

1 piece / box

Diameter



Custom-engineered pads are available on request.

Order code

Example: SQUADRO-G **30** MICRON-(X) B4 **D 7 P** -DDD-ddd

① Diamond grit size	In micron 3, 6, 15, 30, 45, 60
② Drawing index	X (optional)
③ Diamond concentration	B low D medium E high
④ Abrasive layer thickness	7 0.4 mm (tolerance 0 / -0.04 mm) 9 0.8 mm (tolerance 0 / -0.04 mm)
⑤ Mounting and backing	P polycarbonate 0.75 mm self-adhesive for teflon carrier plate T polycarbonate 0.75 mm self-adhesive for metal carrier plate X flex textile, metal plate backing Y flex textile, magnetic foil backing
⑥ Additional order information	D outer diameter in mm d inner diameter in mm

SQUADRO-G highlights

- Suited for all common glass materials
- More economic than abrasive foil or slurries
- High planarity and precise edges
- Longer life time than abrasive foil
- Clean operation because no abrasive slurry is needed

Application recommendations

Dressing

Prior to the first use, the SQUADRO-G pad has to be dressed and planarized with a dressing tool (e.g. Al₂O₃ with grit 280 mesh (grit size 45, 60 micron) or 400 mesh (grit size 3, 6, 15, 30 micron)).

Cleaning

To ensure cutting efficiency of the bonding, the grinding pad has to be cleaned from 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

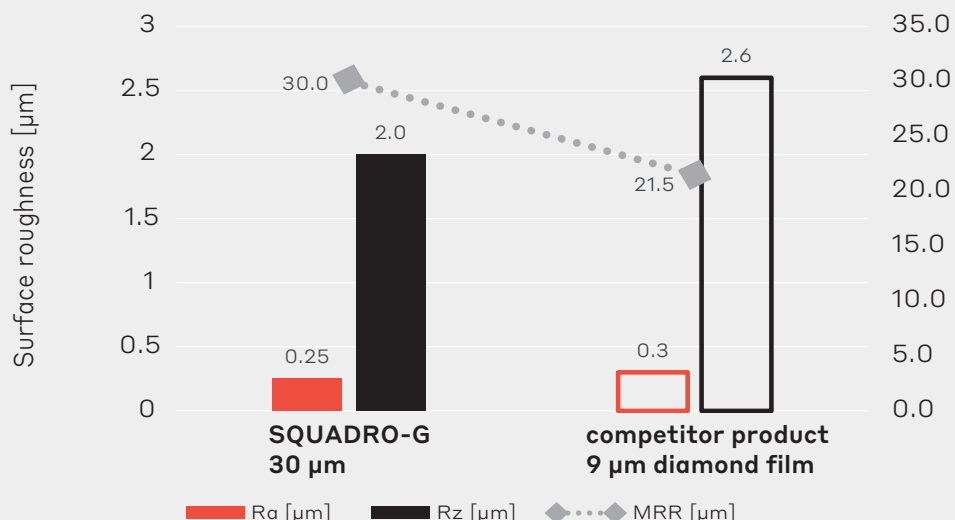
SQUADRO-LUB PLUS is a water-soluble cooling and lubricating fluid and ensures high and consistent material removal. DI-water is only partly suited. No dry running. SQUADRO-LUB PLUS can be ordered from Pureon as an accessory.

Grinding parameters

Grinding pressure recommended: 2 – 10 N / cm², max. 15 N / cm²
Circumferential speed recommended: 5 m / s, max. 10 m / s

Performance comparison on BK7 glass

SQUADRO-G 30 vs competitor diamond film 9 micron



Pureon offers a wide range of customized solutions. More information can be found on www.pureon.com/products/overview

All information is non-binding and provided for information purposes only. Subject to change without notice.