

PG – Productline

PERFORMANCE GRINDING

PERFORMANCE GRINDING – this is the requirement behind the name of the PG series. Compared to conventional aluminium oxide, the enormous increase in performance when using sintered aluminium oxide is based on the microcrystalline structure of the abrasive, which means that new cutting edges are created during grinding and the grinding tool remains sharp for a very long time. In order to fully exploit the high performance potential of this grain, LAPPORT has all important grain types, which meet the most diverse operating conditions with their individual properties and grain shapes, in the PG range.

Properties:

- High removal rates
- Constant grinding performance
- Lower grinding forces
- Dimensional stability
- Cool grinding

Advantage:

- Process Economy
- Abrasive cost per part
- Longer tool life
- Less frequent dressing



PGB

PGC

PGP

PGS

Application:

- Alloy steels, HSS tool steels up to 65 HRC
- Under high forces or loads, the self-sharpening effect (micro-splintering) comes into play, which allows for higher infeeds and feed rates
- Less dressing infeed ensures improved cost effectiveness with regards to dressing tools
- Recommended coolant: 5% emulsions with 35-45% mineral oil concentrate or pure grinding oil

Grain Type	Grain Shape	Available Grain Sizes FEPA
PGB	Blocky	F 20 – F 1200
PGC	Angular, jagged	F 20 – F 220
PGP	Flat, triangular	F 20 – F 220
PGS	Rod	F 30 – F 120

