

Polishing Slurries Based on Diamond

slurry	pH-values	grain size	stock removal, surface roughness Ra	price (EUR/kg)
OXAPA D 5	8-9	5µm	0.90-1.10µm/min, 5-10Å	237
OXAPA D 05	8-9	0.5µm	0.15-0.30µm/min, 4-6Å	226
OXAPA D 01	8-9	0.1µm	0.05-0.10µm/min, 1-3Å	226

The polishing slurries based on diamond OXAPA D 5, OXAPA D 05, OXAPA D 01 are used for standard and precise finish polishing of optical materials with crystalline structure. The slurries are especially useful in processing of hard crystals like sapphire, YAG, Spinel, Forsterite, Alexandrite, SiC. Good results were obtained also by polishing of CaF₂, BaF₂, MgF₂, LiF, YLF, ZnSe, ZnS, Ge, Si, YSGG, AGS, AGSe, ZnGeP₂, CdS, CdSe, IKS-glasses and glass ceramics Sitall, Clearceram, Zerodur .

The slurries OXAPA D 5, OXAPA D 05, OXAPA D 01 are suitable for polishing of hydrophobic crystals like KTP and KDP. They can be used also in polishing machines with closed pumping loops.

The diamond slurries can be also used with the crystals KGW, KYW, YVO₄, GdVO₄, LBO, CLBO, α-BBO, β-BBO, LiIO₃, LiNbO₃. Nevertheless the application conditions should be well adapted.

