Polishing Slurry Based on Colloidal Silica (SiO₂)

slurry	pH-values	grain size	stock removal, surface roughness Ra	price (EUR/kg)
OXAPA SOL 007	8	70nm	0.05-0.08µm/min, 1-2Å	80

The polishing slurry based on colloidal silica OXAPA SOL 007 is used for finish polishing of glass materials with internal crystalline structure. Our tests have proven good results with sapphire, glass ceramics like Sitall, Clearceram, Zerodur, crystalline quartz.

It can be also used with the crystals YAG, YLF, KGW, KYW, YVO $_4$, GdVO $_4$, YSGG, AGS, AGSe, ZnGeP $_2$, Ge, Si, ZnS, ZnSe, CdS, CdSe, Forsterite, Alexandrite, Spinel, CaF $_2$, BaF $_2$, MgF $_2$, LiF, LBO, CLBO, a-BBO, b-BBO, LiIO $_3$, LiNbO $_3$. Nevertheless the application conditions should be well adapted.



Polishing Slurries Based on Alumina (Al₂O₃)

slurry	pH-values	grain size	stock removal, surface roughness Ra	price (EUR/kg)
OXAPA AL1L	13	1µm	0.30-0.40µm/min, 4-5Å	83
OXAPA AL1S	3	1µm	0.30-0.40µm/min, 4-5Å	111
OXAPA AL03L	13	0.3µm	0.15-0.25µm/min, 2-3Å	83
OXAPA AL03S	3	0.3µm	0.15-0.25µm/min, 2-3Å	111

The polishing slurries based on alumina OXAPAAL 1 and OXAPAAL 03, are used for polishing of optical materials with crystalline structure. The slurries are especially useful in processing of hard crystals like sapphire, YAG, Spinel, Forsterite, Alexandrite. Our tests have proven good results also with ZnSe, ZnS, and glass ceramics like Sitall, Clearceram, Zerodur as well as with crystalline quartz.

We found out also that the alumina slurries can be successfully used with relatively soft materials like Ge, Si, YSGG, AGS, AGSe, ZnGeP₂, CdS, CdSe, as well as with IKS-glasses.

They can be also used with the crystals YLF, KGW, KYW, YVO $_4$, GdVO $_4$, CaF $_2$, BaF $_2$, MgF $_2$, LiF, LBO, CLBO, a-BBO, b-BBO, LiIO $_3$, LiNbO $_3$. Nevertheless the application conditions should be well adapted.

