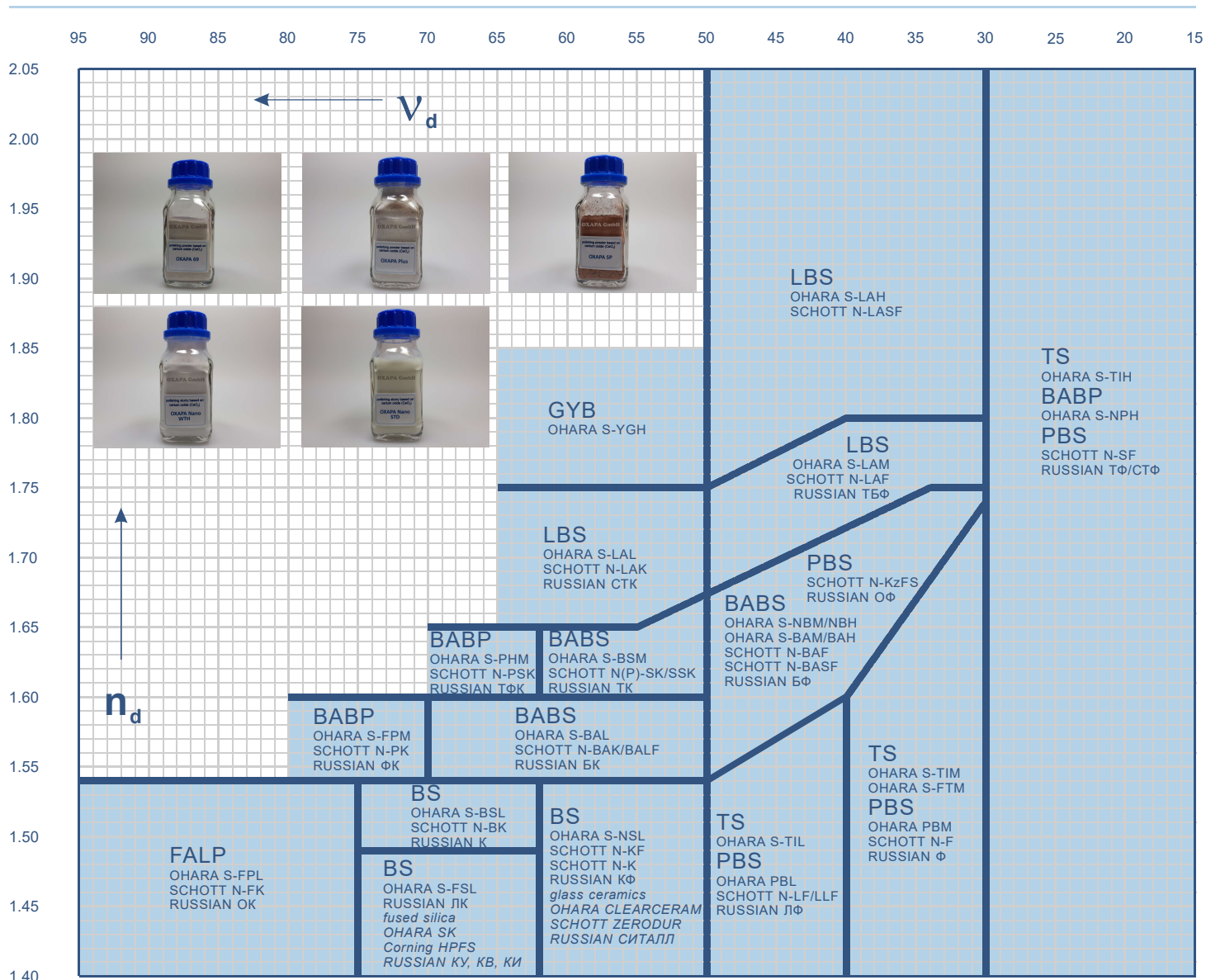


Polishing Slurries Based on Cerium Oxide (CeO₂)

slurry	pH-values	grain size	surface roughness Ra	price (EUR/kg)
OXAPA SP		2.5µm	<5Å	46 (slurry) / 68 (powder)
OXAPA 69		1.3µm	2-4Å	46 (slurry) / 69 (powder)
OXAPA N	6-8	1.0µm	2-4Å	67 (slurry) / 99 (powder)
OXAPA PLUS		0.6µm	1-3Å	86 (slurry) / 129 (powder)
OXAPA NANO (STD)		0.15µm	<1Å	110 (slurry only)
OXAPA NANO (WTH)		0.10-0.15µm	<1Å	79 (slurry only)

The polishing slurries based on cerium oxide are modified due to incorporated additives to improve the compatibility of the slurries with corresponding glass families. There are eight modifications FALP, BS, BABS, LBS, BABP, GYB, TS, PBS presented in the Abbe-diagram and the table below.



slurry	glass compatibility by its composition	slurry	glass compatibility by its composition
main glass composition: $\text{MeF}_2\text{-MeF}_3\text{-Al}_2\text{O}_3\text{-P}_2\text{O}_5$ OXAPA FALP SP <i>fluorine crown</i> OXAPA FALP 69 OHARA S-FPL... OXAPA FALP N SCHOTT N-FK... OXAPA FALP PLUS RUSSIAN OK... OXAPA FALP NANO		main glass composition: $\text{Me}_2\text{O}_3\text{-MeO-La}_2\text{O}_3\text{-B}_2\text{O}_3\text{-SiO}_2$ OXAPA LBS SP <i>lanthanum crown</i> OXAPA LBS 69 OHARA S-LAL... OXAPA LBS N SCHOTT N-LAK... OXAPA LBS PLUS RUSSIAN CTK... OXAPA LBS NANO <i>lanthanum flint</i> OHARA S-LAM... SCHOTT N-LAF... RUSSIAN ТБФ... <i>dense lanthanum flint</i> OHARA S-LAH... SCHOTT N-LASF...	
main glass composition: $\text{MeF}_2\text{-Me}_2\text{O}_3\text{-MeO-B}_2\text{O}_3\text{-SiO}_2$ OXAPA BS SP <i>fluorine light crown</i> OXAPA BS 69 OHARA S-FSL... OXAPA BS N <i>light crown</i> OXAPA BS PLUS RUSSIAN ЛК... OXAPA BS NANO <i>boron crown</i> OHARA S-BSL... SCHOTT N-BK... RUSSIAN K... <i>crown</i> OHARA S-NSL... SCHOTT N-K/ZK... <i>crown flint</i> SCHOTT N-KF... RUSSIAN КФ... <i>glass ceramics</i> OHARA CLEARCERAM SCHOTT ZERODUR RUSSIAN СИТАЛЛ <i>fused silica</i> OHARA SK... CORNING HPFS... RUSSIAN КУ, КВ, КИ		main glass composition: $\text{Me}_2\text{O}_3\text{-MeO-P}_2\text{O}_5$ OXAPA BABP SP <i>phosphorus crown</i> OXAPA BABP 69 OHARA S-FPM... OXAPA BABP N SCHOTT N-PK... OXAPA BABP PLUS RUSSIAN ФК... OXAPA BABP NANO <i>dense phosphorus crown</i> OHARA S-PHM... SCHOTT N-PSK... RUSSIAN ТФК... <i>dense flint</i> OHARA S-NPH	
main glass composition: $\text{MeO}_2\text{-Me}_2\text{O}_3\text{-MeO-BaO-B}_2\text{O}_3\text{-SiO}_2$ OXAPA BABS SP <i>barium crown</i> OXAPA BABS 69 OHARA S-BAL... OXAPA BABS N SCHOTT N-BAK... OXAPA BABS PLUS RUSSIAN БК... OXAPA BABS NANO <i>dense crown</i> OHARA S-BSM... SCHOTT N(P)-SK/SSK... RUSSIAN ТК... <i>(light/dense) barium flint</i> OHARA S-NBM/NBH... OHARA S-BAM/BAH... SCHOTT N-BAF/BASF... SCHOTT N-BALF... RUSSIAN БФ...		main glass composition: $\text{MeO}_2\text{-GeO}_2\text{-Y}_2\text{O}_3\text{-B}_2\text{O}_3$ OXAPA GYB SP <i>yttrium crown</i> OXAPA GYB 69 OHARA S-YGH... OXAPA GYB N OXAPA GYB PLUS OXAPA GYB NANO	
		main glass composition: $\text{MeF}_2\text{-MeO-TiO}_2\text{-SiO}_2$ OXAPA TS SP <i>light flint</i> OXAPA TS 69 OHARA S-TIL... OXAPA TS N <i>flint</i> OXAPA TS PLUS OHARA S-TIM/FTM... OXAPA TS NANO <i>dense flint</i> OHARA S-TIH...	
		main glass composition: $\text{Me}_2\text{O-MeO}_2\text{-PbO-SiO}_2$ OXAPA PBS SP <i>(light/dense) flint</i> OXAPA PBS 69 OHARA PBL/PBM... OXAPA PBS N SCHOTT N-LF/LLF/F/SF... OXAPA PBS PLUS RUSSIAN ЛФ/Ф/ТФ/СТФ... OXAPA PBS NANO <i>special short flint</i> SCHOTT N-KzFS... RUSSIAN ОФ...	