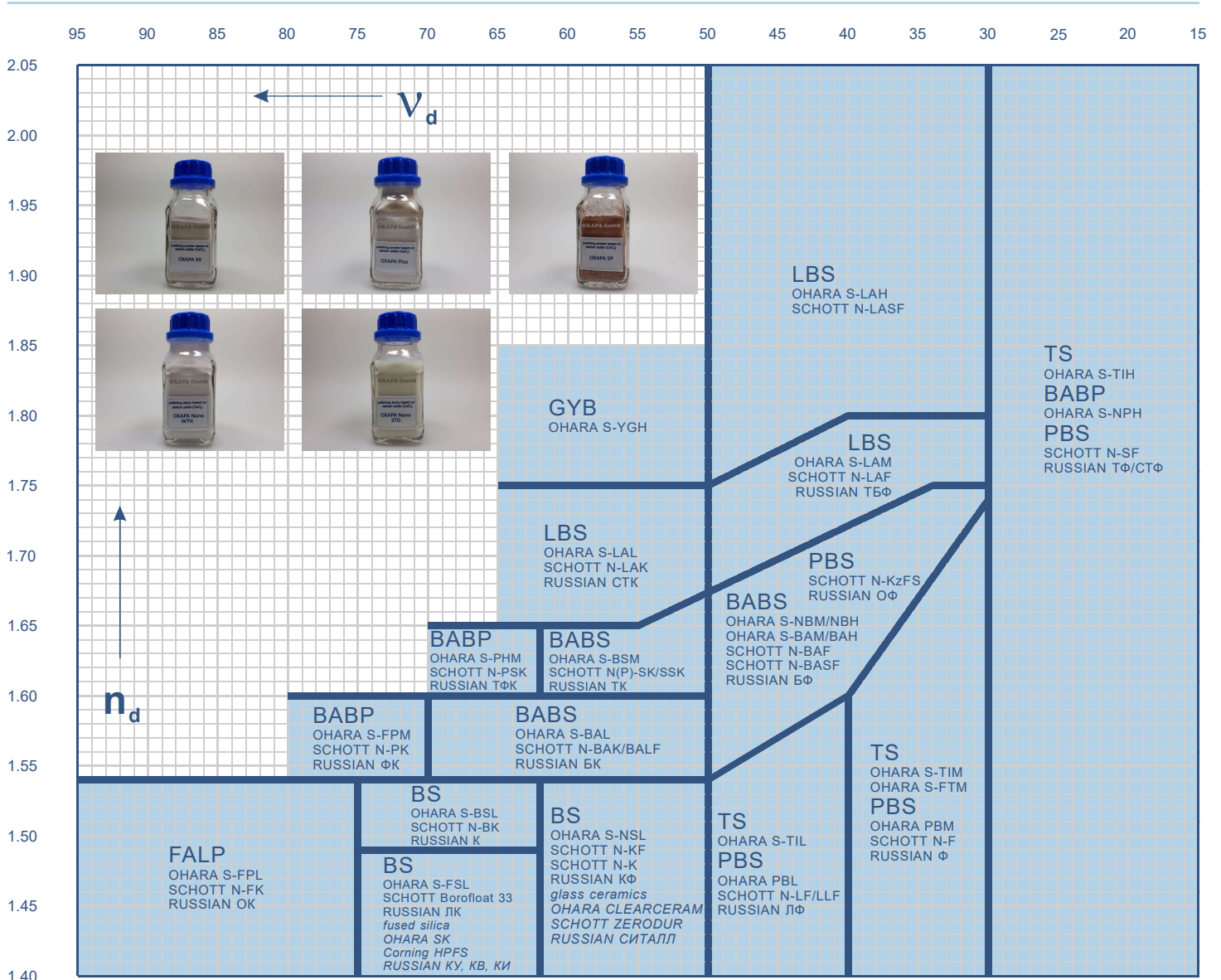


## Polishing Powders and Slurries Based on Cerium Oxide (CeO<sub>2</sub>)

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	90 (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.



<b>slurry</b>	<b>glass compatibility by its composition</b>	<b>slurry</b>	<b>glass compatibility by its composition</b>
main glass composition: $\text{MeF}_2\text{-MeF}_3\text{-Al}_2\text{O}_3\text{-P}_2\text{O}_5$		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 FALP SP OXAPA FALP 69 OXAPA FALP N OXAPA FALP PLUS OXAPA FALP NANO	<i>fluorine crown</i> OHARA S-FPL... SCHOTT N-FK... RUSSIAN OK...	OXAPA LBS SP OXAPA LBS 69 OXAPA LBS N OXAPA LBS PLUS OXAPA LBS NANO	<i>lanthanum crown</i> OHARA S-LAL... SCHOTT N-LAK... RUSSIAN CTK... <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: $\text{MeF}_2\text{-Me}_2\text{O}_3\text{-MeO-B}_2\text{O}_3\text{-SiO}_2$		main glass composition: $\text{Me}_2\text{O}_3\text{-MeO-P}_2\text{O}_5$	
OXAPA BS SP OXAPA BS 69 OXAPA BS N OXAPA BS PLUS OXAPA BS NANO	<i>fluorine light crown</i> OHARA S-FSL... <i>light crown</i> RUSSIAN ЛК... borosilicate SCHOTT Borofloat 33 <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	OXAPA BABP SP OXAPA BABP 69 OXAPA BABP N OXAPA BABP PLUS OXAPA BABP NANO	<i>phosphorus crown</i> OHARA S-FPM... SCHOTT N-PK... RUSSIAN ФК... <i>dense phosphorus crown</i> OHARA S-PHM... SCHOTT N-PSK... RUSSIAN ТФК... <i>dense flint</i> OHARA S-NPH
main glass composition: $\text{MeO}_2\text{-Me}_2\text{O}_3\text{-MeO-BaO-B}_2\text{O}_3\text{-SiO}_2$		main glass composition: $\text{MeO}_2\text{-GeO}_2\text{-Y}_2\text{O}_3\text{-B}_2\text{O}_3$	
OXAPA BABS SP OXAPA BABS 69 OXAPA BABS N OXAPA BABS PLUS OXAPA BABS NANO	<i>barium crown</i> OHARA S-BAL... SCHOTT N-BAK... RUSSIAN БК... <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...	OXAPA GYB SP OXAPA GYB 69 OXAPA GYB N OXAPA GYB PLUS OXAPA GYB NANO	<i>yttrium crown</i> OHARA S-YGH...
main glass composition: $\text{MeF}_2\text{-MeO-TiO}_2\text{-SiO}_2$		main glass composition: $\text{Me}_2\text{O-MeO}_2\text{-PbO-SiO}_2$	
OXAPA TS SP OXAPA TS 69 OXAPA TS N OXAPA TS PLUS OXAPA TS NANO		OXAPA PBS SP OXAPA PBS 69 OXAPA PBS N OXAPA PBS PLUS OXAPA PBS NANO	<i>light flint</i> OHARA S-TIL... <i>flint</i> OHARA S-TIM/FTM... <i>dense flint</i> OHARA S-TIH...
			<i>(light/dense) flint</i> OHARA PBL/PBM... SCHOTT N-LF/LLF/F/SF... RUSSIAN ЛФ/Ф/ТФ/СТФ... <i>special short flint</i> SCHOTT N-KzFS... RUSSIAN ОФ...