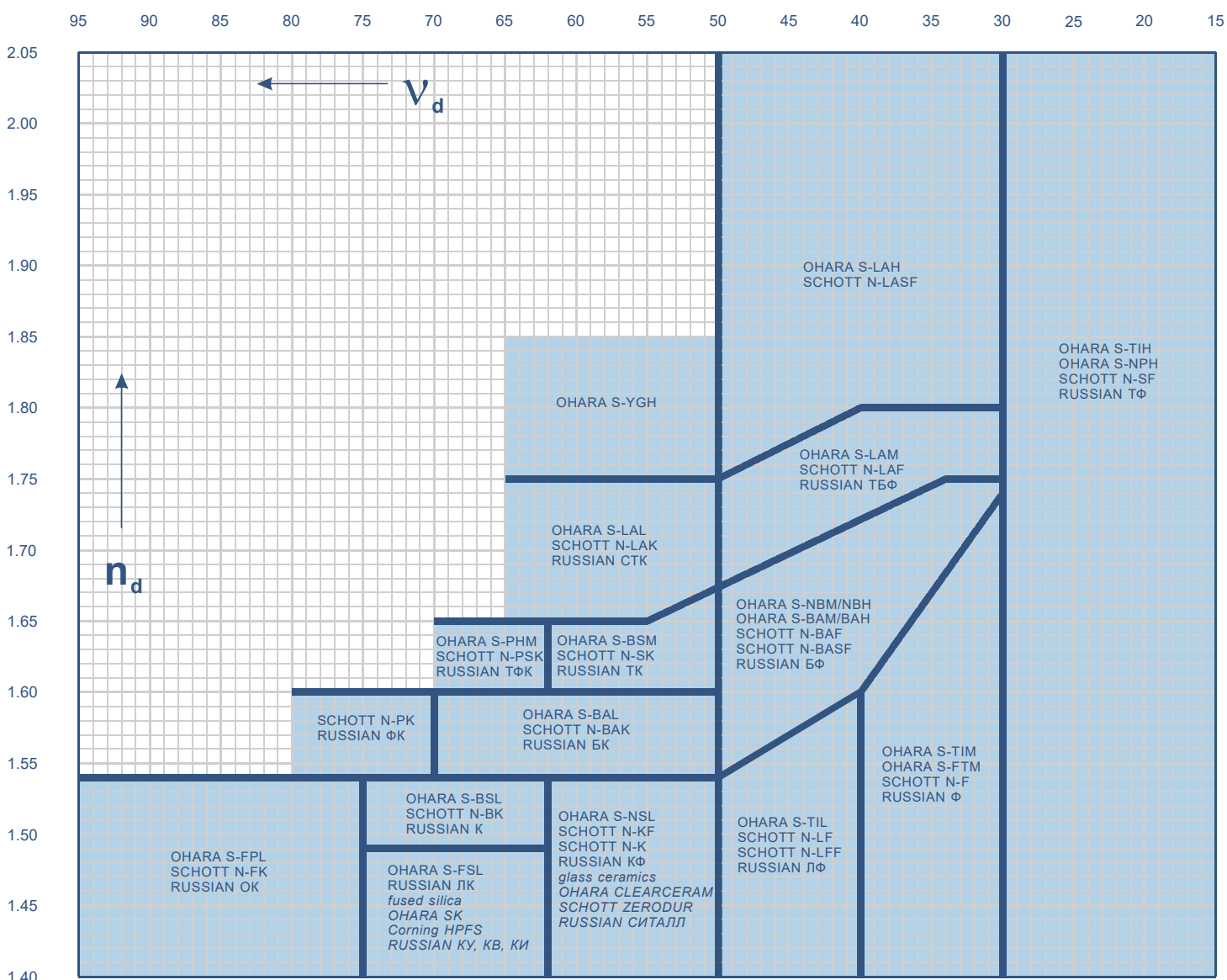


# Optical White Glasses

In the table in the next pages optical white glasses made by OHARA, SCHOTT, and by the technology developed in the former USSR are compared. All (or at least most) of these glasses were tested in our laboratory and we developed the polishing slurry modifications for each glass family. (See the right column of the table. There are eight slurry modifications FALP, BS, BABS, LBS, BABP, GYB, TS, PBS.) Along with the polishing materials we can supply all the presented glasses preformed and prepolished for your further final processing.



## Optical White Glasses

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
439948		S-FPL55		1.43875	94.7	1.43986	94.2	13.6	3.59	FALP
439950		S-FPL53		1.43875	94.9	1.43985	94.5	14.5	3.62	FALP
447920	OK4			1.44734	92.0	1.44850	91.5	12.0	3.54	FALP
456909			N-FK58	1.45600	90.9	1.45720	90.5	13.7	3.65	FALP
470656	ЛК6			1.47046	65.6	1.47214	65.4	8.0	2.30	BS
478655	ЛК5			1.47817	65.6	1.47990	65.4	3.5	2.27	BS
483663	ЛК7			1.48287	66.3	1.48461	66.2	4.0	2.30	BS
487700	ЛК3			1.48746	70.0	1.48912	69.9	9.2	2.46	BS
487702		S-FSL5		1.48749	70.2	1.48915	70.0	9.0	2.46	BS
487703		S-FSL5Y		1.48749	70.4	1.48915	70.2	8.9	2.46	BS
487704			N-FK5	1.48749	70.4	1.48914	70.2	9.2	2.45	FALP
487705			FK5HTi	1.48748	70.5	1.48913	70.3	9.2	2.45	FALP
487845			N-FK51A	1.48656	84.5	1.48794	84.1	12.7	3.68	FALP
497811		S-FPL51Y		1.49700	81.1	1.49847	80.7	13.6	3.66	FALP
497816		S-FPL51		1.49700	81.5	1.49845	81.1	13.1	3.62	FALP
497816			N-PK52A	1.49700	81.6	1.49845	81.2	13.0	3.70	BABP
498651	K1			1.49827	65.1	1.50009	65.0	6.5	2.36	BS
498670			N-BK10	1.49782	67.0	1.49960	66.8	5.8	2.39	BS
500572	KΦ6			1.50058	57.2	1.50266	57.0	6.8	2.52	BS
500621	KΦ5			1.49967	62.1	1.50159	61.9	8.7	2.47	BS
500660	K2			1.50047	66.0	1.50228	65.8	6.4	2.38	BS
501564			K10	1.50137	56.4	1.50349	56.2	6.5	2.52	BS
501572	KΦ6			1.50058	57.2	1.50266	57.0	6.2	2.52	BS
508610			N-ZK7A	1.50805	61.0	1.51004	60.8	4.6	2.47	BS
508612			N-ZK7	1.50847	61.2	1.51045	61.0	4.5	2.49	BS
510633	K3			1.51007	63.4	1.51990	63.1	8.3	2.47	BS
511604			K7	1.51112	60.4	1.51314	60.2	8.4	2.53	BS
514606	K14			1.51478	60.6	1.51681	60.4	7.1	2.53	BS
516640	K8			1.51637	64.1	1.51829	63.9	7.6	2.52	BS
516641		S-BSL7		1.51633	64.1	1.51825	63.9	7.2	2.52	BS
516641		L-BSL7		1.51633	64.1	1.51825	63.9	5.8	2.38	BS
516641			P-BK7	1.51640	64.1	1.51832	63.9	6.0	2.43	BS
516643		BSL7Y		1.51633	64.2	1.51825	64.0	6.8	2.50	BS
517524		S-NSL36		1.51742	52.4	1.51976	52.1	8.0	2.46	BS
517642			N-BK7	1.51680	64.2	1.51872	64.0	7.1	2.51	BS
517642			N-BK7HT	1.51680	64.2	1.51872	64.0	7.1	2.51	BS
517642			N-BK7HTi	1.51680	64.2	1.51872	64.0	7.1	2.51	BS
518512	KΦ7			1.51759	51.2	1.52001	50.9	5.5	2.15	BS
518589	KΦ4			1.51818	59.0	1.52027	58.7	7.1	2.57	BS
518590		S-NSL3		1.51823	58.9	1.52033	58.6	9.0	2.48	BS
518616	K19			1.51878	61.7	1.52079	61.5	8.0	2.62	BS
519691	ΦK11			1.51997	69.2	1.52176	68.9	8.9	2.60	BABP
522595			N-K5	1.52249	59.5	1.52458	59.2	8.2	2.59	BS
522595	K100			1.52249	59.5	1.52458	59.2	7.9	2.52	BS

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
522598		S-NSL5		1.52249	59.8	1.52458	59.6	8.2	2.49	BS
523515			N-KF9	1.52346	51.5	1.52588	51.3	9.6	2.50	BS
524549	БФ1			1.52479	55.0	1.52706	54.7	7.3	2.67	BABS
526601	K20			1.52638	60.2	1.52847	59.9	7.5	2.61	BS
529518	ОФ1			1.52949	51.8	1.53192	51.6	6.2	2.56	PBS
529770			N-PK51	1.52855	77.0	1.53019	76.6	12.4	3.86	BABP
530604	БК4			1.53028	60.5	1.53237	60.2	7.8	2.76	BABS
532489		S-TIL6		1.53172	48.8	1.53430	48.6	8.2	2.50	TS
532490		PBL6Y		1.53172	49.0	1.53430	48.7	8.3	2.79	PBS
534555	K15			1.53359	55.5	1.53588	55.2	9.2	2.72	BS
538747		S-FPM3		1.53775	74.7	1.53947	74.3	11.5	3.64	BABP
539596	БК6			1.53998	59.7	1.54214	59.4	8.2	2.86	BABS
540597			N-BAK2	1.53996	59.7	1.54212	59.4	8.0	2.86	BABS
541472		S-TIL2		1.54072	47.2	1.54344	46.9	8.2	2.52	TS
541472	ЛФ1			1.54072	47.2	1.54344	46.9	9.6	2.54	PBS
547536			N-BALF5	1.54739	53.6	1.54982	53.4	7.3	2.61	BABS
547628	БК8			1.54678	62.8	1.54886	62.6	5.6	2.83	BABS
547676	ФК13			1.54687	67.6	1.54881	67.4	7.3	2.93	BABP
548457		PBL1Y		1.54814	45.7	1.55099	45.5	9.3	2.95	PBS
548458		S-TIL1		1.54814	45.8	1.55098	45.5	8.6	2.54	TS
548458			LLF1	1.54814	45.8	1.55099	45.5	8.1	2.94	PBS
548458	ЛФ10			1.54810	45.9	1.55094	45.6	7.8	2.73	PBS
548459			LLF1HTi	1.54815	45.9	1.55099	45.6	8.1	2.94	PBS
552634	БК11			1.55248	63.4	1.55456	63.1	6.1	2.90	BABS
552635			N-PSK3	1.55232	63.5	1.55440	63.2	6.2	2.91	BABP
557587		BAL15Y		1.55671	58.7	1.55897	58.4	7.6	2.90	BABS
558540			N-KZFS2	1.55836	54.0	1.56082	53.8	4.4	2.54	PBS
560467	ЛФ11			1.56091	46.8	1.56376	46.5	7.4	3.02	PBS
561583	БК12			1.56069	58.3	1.56298	58.1	7.6	3.01	BABS
564607		S-BAL41		1.56384	60.7	1.56606	60.4	7.5	2.78	BABS
564608			N-SK11	1.56384	60.8	1.56605	60.6	6.5	3.08	BABS
564608	TK1			1.56388	60.8	1.56610	60.5	6.0	3.05	BABS
567428		S-TIL26		1.56732	42.8	1.57047	42.5	7.9	2.57	TS
567428		PBL26Y		1.56732	42.9	1.57047	42.6	8.9	3.10	PBS
568560	БК10			1.56889	56.1	1.57131	55.8	7.0	3.12	BABS
569560			N-BAK4	1.56883	56.0	1.57125	55.7	7.0	3.05	BABS
569560			N-BAK4HT	1.56883	56.0	1.57125	55.7	7.0	3.05	BABS
569563		S-BAL14		1.56883	56.4	1.57124	56.1	8.0	2.89	BABS
569629	TK12			1.56888	62.9	1.57104	62.7	5.8	3.06	BABS
571508		S-BAL2		1.57099	50.8	1.57366	50.5	9.1	2.89	BABS
571530		S-BAL3		1.57135	53.0	1.57392	52.7	9.5	2.98	BABS
572574	TK2			1.57249	57.5	1.57486	57.2	7.0	3.20	BABS
573576			N-BAK1	1.57250	57.6	1.57487	57.3	7.6	3.19	BABS
575413	ЛФ5			1.57502	41.3	1.57833	41.0	7.1	3.23	PBS
575415		S-TIL27		1.57501	41.5	1.57829	41.2	7.4	2.58	TS
578411	ЛФ7			1.57842	41.1	1.58176	40.8	7.5	3.23	PBS
579538	БФ7			1.57960	53.9	1.58216	53.6	7.4	3.23	BABS
579651	ФК14			1.57998	65.1	1.58211	64.8	9.7	3.39	BABP

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
580380	ЛФ9			1.58013	38.0	1.58374	37.7	9.0	2.61	PBS
580539			N-BALF4	1.57956	53.9	1.58212	53.6	6.5	3.11	BABS
580539	БФ7			1.57960	53.9	1.58216	53.6	5.5	2.51	BABS
581407		S-TIL25		1.58144	40.8	1.58482	40.5	7.4	2.59	TS
581408		PBL25Y		1.58144	40.8	1.58482	40.5	8.7	3.23	PBS
581409			LF5	1.58144	40.9	1.58482	40.6	9.1	3.22	PBS
581409			LF5HTi	1.58144	40.9	1.58482	40.6	9.1	3.22	PBS
582409		PBL35Y		1.58159	40.9	1.58497	40.6	9.1	3.27	PBS
583465	БФ8			1.58271	46.5	1.58569	46.2	7.7	3.28	BABS
583594		S-BAL42		1.58313	59.4	1.58547	59.1	6.6	3.19	BABS
583594		L-BAL42		1.58313	59.4	1.58547	59.1	7.2	3.05	BABS
586595			P-SK57Q1	1.58600	59.5	1.58835	59.3	7.2	3.01	BABS
586597		L-BAL43		1.58573	59.7	1.58807	59.5	7.2	3.05	BABS
587596			P-SK57	1.58700	59.6	1.58935	59.4	7.2	3.01	BABS
589610		S-BAL35R		1.58913	61.0	1.59144	60.7	5.5	3.30	BABS
589612		S-BAL35		1.58913	61.1	1.59143	60.9	5.7	3.31	BABS
589612		BAL35Y		1.58913	61.2	1.59143	61.0	5.7	3.23	BABS
589612		L-BAL35		1.58913	61.2	1.59143	60.9	6.6	2.82	BABS
589612			P-SK58A	1.58913	61.2	1.59143	60.9	6.8	2.97	BABS
589612	TK23			1.58919	61.3	1.59147	61.0	5.9	3.24	BABS
589613			N-SK5	1.58913	61.3	1.59142	61.0	5.5	3.30	BABS
593353		S-FTM16		1.59270	35.3	1.59667	35.0	9.0	2.64	TS
595677		S-FPM2		1.59522	67.7	1.59732	67.4	11.7	4.17	BABP
596387		PBM18Y		1.59551	38.8	1.59915	38.5	8.8	3.37	PBS
596392		S-TIM8		1.59551	39.2	1.59911	39.0	8.4	2.63	TS
596393		PBM8Y		1.59551	39.3	1.59911	39.0	8.5	3.36	PBS
601510	ОФ6			1.60120	51.0	1.60401	50.8	4.8	2.95	PBS
603379	Ф6			1.60324	37.9	1.60702	37.7	7.3	3.48	PBS
603380		S-TIM5		1.60342	38.0	1.60718	37.8	8.3	2.63	TS
603380			F5	1.60342	38.0	1.60718	37.8	8.0	3.47	PBS
603606		BSM51Y		1.60311	60.7	1.60548	60.4	6.3	3.36	BABS
603606			N-SK14	1.60311	60.6	1.60548	60.3	6.0	3.44	BABS
603606	TK13			1.60311	60.6	1.60548	60.4	6.1	3.44	BABS
603607		S-BSM14		1.60311	60.6	1.60548	60.4	6.2	3.43	BABS
603655		S-PHM53		1.60300	65.4	1.60520	65.2	9.3	3.51	BABP
606437		S-BAM4		1.60562	43.7	1.60891	43.4	8.4	2.91	BABS
606437			N-BAF4	1.60568	43.7	1.60897	43.4	7.2	2.89	BABS
606439	БФ27			1.60682	44.0	1.61010	43.7	7.9	3.46	BABS
607567			N-SK2	1.60738	56.7	1.60994	56.4	6.0	3.55	BS
607567			N-SK2HT	1.60738	56.7	1.60994	56.4	6.0	3.55	BS
607568		S-BSM2		1.60738	56.8	1.60993	56.5	6.5	3.53	BABS
608461	БФ25			1.60772	46.1	1.61085	45.8	6.6	3.47	BABS
609466			N-BAF52	1.60863	46.6	1.61173	46.3	6.9	3.05	BABS
610579			P-SK60	1.61035	57.9	1.61286	57.7	7.1	3.08	BABS
611558	TK4			1.61120	55.8	1.61381	55.5	6.6	3.58	BABS
612369	Ф1			1.61294	37.0	1.61688	36.7	7.4	3.57	PBS
612583	TK16			1.61269	58.4	1.61519	58.1	7.3	3.56	BABS
613370		S-TIM3		1.61293	37.0	1.61685	36.7	7.7	2.67	TS
613441	ОФ3			1.61340	44.1	1.61669	43.9	6.3	2.80	PBS

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
613443		S-NBM51		1.61340	44.3	1.61669	44.0	6.5	2.93	BABS
613445			N-KZFS4	1.61336	44.5	1.61664	44.3	7.3	3.00	PBS
613445			N-KZFS4HT	1.61336	44.5	1.61664	44.3	7.3	3.00	PBS
613586			N-SK4	1.61272	58.6	1.61521	58.4	6.5	3.54	BABS
613587		S-BSM4		1.61272	58.7	1.61520	58.5	6.7	3.57	BABS
613605	TK14			1.61309	60.6	1.61551	60.3	6.9	3.51	BABS
614400	БФ21			1.61413	40.0	1.61777	39.8	7.7	3.56	BABS
614551	TK8			1.61410	55.1	1.61675	54.8	7.0	3.61	BABS
616366	Φ2			1.61655	36.6	1.62054	36.4	7.5	3.60	PBS
617540	TK9			1.61720	54.0	1.61993	53.8	6.8	3.62	BABS
618498		S-BSM28		1.61772	49.8	1.62067	49.5	8.4	3.23	BABS
618498			N-SSK8	1.61773	49.8	1.62068	49.5	7.2	3.27	BABS
618634		S-PHM52		1.61800	63.3	1.62033	63.0	10.1	3.67	BABP
618634			N-PSK53A	1.61800	63.4	1.62033	63.1	9.6	3.57	BABP
620363		S-TIM2		1.62004	36.3	1.62409	36.0	8.1	2.69	TS
620363		PBM2Y		1.62004	36.3	1.62409	36.0	8.6	3.61	PBS
620363	Φ13			1.62005	36.4	1.62408	36.1	7.4	3.63	PBS
620364			F2	1.62004	36.4	1.62408	36.1	8.2	3.60	PBS
620364			F2HT	1.62004	36.4	1.62408	36.1	8.2	3.60	PBS
620364			N-F2	1.62005	36.4	1.62408	36.2	7.8	2.65	PBS
620603		S-BSM16		1.62041	60.3	1.62287	60.0	6.7	3.59	BABS
620603			N-SK16	1.62041	60.3	1.62286	60.1	6.3	3.58	BABS
622531	БФ11			1.62230	53.1	1.62509	52.9	7.0	3.66	BABS
622532		S-BSM22		1.62230	53.2	1.62508	52.9	6.6	3.24	BABS
622533			N-SSK2	1.62229	53.3	1.62508	53.0	5.8	3.53	BABS
622567	TK20			1.62210	56.7	1.62470	56.4	7.3	3.58	BABS
623570		S-BSM10		1.62280	57.1	1.62540	56.8	6.5	3.60	BABS
623582		S-BSM15		1.62299	58.2	1.62555	57.9	6.5	3.60	BABS
624359	Φ4			1.62435	35.9	1.62847	35.7	7.4	3.67	PBS
625356	Φ8			1.62495	35.6	1.62911	35.3	9.1	3.61	PBS
626357		S-TIM1		1.62588	35.7	1.63003	35.4	8.1	2.71	TS
626391	БФ12			1.62604	39.1	1.62984	38.8	8.6	2.96	BABS
628594	TK17			1.62800	59.4	1.63051	59.1	6.9	3.66	BABS
635368	БФ24			1.63455	36.8	1.63864	36.5	7.4	3.67	BABS
636354	Φ20			1.63636	35.4	1.64062	35.1	8.5	3.73	PBS
638424			N-KZFS11	1.63775	42.4	1.64132	42.2	6.6	3.20	PBS
639449		S-BAM12		1.63930	44.9	1.64268	44.6	7.6	3.18	BABS
639482	БФ13			1.63961	48.3	1.64277	48.0	6.7	3.82	BABS
639554		S-BSM18		1.63854	55.4	1.64129	55.1	7.0	3.69	BABS
640345		S-TIM27		1.63980	34.5	1.64419	34.2	8.0	2.76	TS
640601		S-BSM81		1.64000	60.1	1.64254	59.9	5.8	3.06	BABS
640601			N-LAK21	1.64049	60.1	1.64304	59.9	6.8	3.74	LBS
647338	ТФ1			1.64766	33.9	1.65219	33.6	8.5	3.86	PBS
648338		S-TIM22		1.64769	33.8	1.65222	33.5	8.3	2.79	TS
648338			N-SF2	1.64769	33.8	1.65222	33.6	6.7	2.72	PBS
648339			SF2	1.64769	33.9	1.65222	33.6	8.4	3.86	PBS
649530		S-BSM71		1.64850	53.0	1.65141	52.7	7.1	3.74	BABS
650434	ОФ4			1.65063	43.5	1.65419	43.3	5.2	3.48	PBS
651559			N-LAK22	1.65113	55.9	1.65391	55.6	6.6	3.77	LBS

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
651562		S-LAL54		1.65100	56.2	1.65376	55.9	7.1	3.82	LBS
652450			N-BAF51	1.65224	45.0	1.65569	44.7	8.4	3.33	BSBS
652585		S-LAL7		1.65160	58.6	1.65425	58.3	6.7	3.73	LBS
652585			N-LAK7	1.65160	58.5	1.65425	58.3	7.1	3.84	LBS
654397		S-NBH5		1.65412	39.7	1.65803	39.4	6.6	3.02	BABS
654397			N-KZFS5	1.65412	39.7	1.65803	39.5	6.4	3.04	PBS
656511	TK21			1.65691	51.1	1.65996	50.8	8.0	3.98	BABS
658509		S-BSM25		1.65844	50.9	1.66152	50.6	6.8	3.50	BABS
658509			N-SSK5	1.65844	50.9	1.66152	50.6	6.8	3.71	BABS
659573	CTK3			1.65950	57.4	1.66224	57.1	8.0	3.91	LBS
662417	OΦ5			1.66264	41.8	1.66640	41.6	5.3	3.60	PBS
664354	БΦ28			1.66426	35.4	1.56871	35.2	5.9	3.96	BABS
664360			N-BASF2	1.66446	36.0	1.66883	35.7	7.1	3.15	BABS
667330		S-TIM39		1.66680	33.1	1.67157	32.8	8.7	2.92	TS
667483		S-BAH11		1.66672	48.3	1.67000	48.0	6.9	3.59	BABS
670393		S-BAH32		1.66998	39.3	1.67402	39.0	6.9	3.26	BABS
670471			N-BAF10	1.67003	47.1	1.67341	46.8	6.2	3.75	BABS
670473		S-BAH10		1.67003	47.2	1.67340	46.9	6.8	3.48	BABS
671473	БΦ16			1.67102	47.3	1.67439	47.0	7.8	4.02	BABS
673321		S-TIM25		1.67270	32.1	1.67765	31.8	7.9	2.91	TS
673322			SF5	1.67270	32.2	1.67764	32.0	8.2	4.07	PBS
673322	TΦ2			1.67268	32.2	1.67762	32.0	7.3	4.09	PBS
673323			N-SF5	1.67271	32.3	1.67763	32.0	7.9	2.86	PBS
673382		S-NBH52		1.67300	38.2	1.67719	37.9	8.6	3.09	BABS
673383		S-NBH52V		1.67300	38.3	1.67717	38.0	7.7	3.01	BABS
678552			N-LAK12	1.67790	55.2	1.68083	54.9	7.6	4.10	LBS
678553		S-LAL12		1.67790	55.3	1.68082	55.1	7.2	4.01	LBS
687536	CTK7			1.68701	53.6	1.69006	53.3	9.4	4.22	LBS
689311		S-TIM28		1.68893	31.1	1.69417	30.8	8.2	2.98	TS
689311		L-TIM28		1.68948	31.0	1.69473	30.8	10.0	2.88	TS
689311	TΦ8			1.68949	31.1	1.69473	30.9	8.1	4.23	PBS
689313			N-SF8	1.68894	31.3	1.69413	31.1	8.6	2.90	PBS
689313			P-SF8	1.68893	31.3	1.69414	31.0	9.4	2.90	PBS
691547			N-LAK9	1.69100	54.7	1.69401	54.5	6.3	3.51	LBS
691548		S-LAL9		1.69100	54.8	1.69401	54.6	6.1	3.63	LBS
692550	CTK12			1.69201	55.0	1.69501	54.8	6.7	3.46	LBS
693529		L-LAL15		1.69304	52.9	1.69616	52.7	5.4	3.66	LBS
693532			P-LAK35	1.69350	53.2	1.69661	53.0	8.1	3.85	LBS
694508		S-LAL58		1.69350	50.8	1.69675	50.5	7.5	4.03	LBS
694532		S-LAL13		1.69350	53.2	1.69661	53.0	5.7	3.60	LBS
694532		L-LAL13		1.69350	53.2	1.69661	52.9	7.6	3.69	LBS
697485		S-LAM59		1.69700	48.5	1.70042	48.2	7.1	3.77	LBS
697554			N-LAK14	1.69680	55.4	1.69980	55.2	5.5	3.63	LBS
697555		S-LAL14		1.69680	55.5	1.69979	55.3	5.7	3.70	LBS
699301		S-TIM35		1.69895	30.1	1.70442	29.9	7.5	2.96	TS
699302			N-SF15	1.69892	30.2	1.70438	30.0	8.0	2.92	PBS
702412		S-BAH27		1.70154	41.2	1.70557	41.0	6.4	3.67	BABS
703497	CTK8			1.70312	49.7	1.70650	49.4	8.4	4.16	LBS
704394			N-BASF64	1.70400	39.4	1.70824	39.1	7.3	3.20	BABS

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
713538			N-LAK8	1.71300	53.8	1.71616	53.6	5.6	3.75	LBS
713538	CTK15			1.71300	53.8	1.71616	53.6	5.5	3.74	LBS
713539		S-LAL8		1.71300	53.9	1.71615	53.6	6.1	3.79	LBS
717295		S-TIH1		1.71736	29.5	1.72310	29.3	8.2	3.06	TS
717295			SF1	1.71736	29.5	1.72310	29.3	8.1	4.46	PBS
717295	TΦ3			1.71741	29.5	1.72317	29.3	8.3	4.46	PBS
717296			N-SF1	1.71736	29.6	1.72308	29.4	9.1	3.03	PBS
717479		S-LAM3		1.71700	47.9	1.72056	47.6	8.0	4.25	LBS
720347		S-NBH8		1.72047	34.7	1.72538	34.5	8.1	3.19	BABS
720347			N-KZFS8	1.72047	34.7	1.72539	34.5	7.8	3.20	PBS
720420		S-LAM58		1.72000	42.0	1.72407	41.7	6.6	4.00	LBS
720437		S-LAM52		1.72000	43.7	1.72391	43.4	7.7	3.95	LBS
720460		S-LAM61		1.72000	46.0	1.72372	45.8	6.6	4.10	LBS
720502		S-LAL10		1.72000	50.2	1.72341	50.0	6.1	3.86	LBS
720506			N-LAK10	1.72003	50.6	1.72341	50.4	5.7	3.69	LBS
722292		S-TIH18		1.72151	29.2	1.72733	29.0	8.3	3.07	TS
723292			P-SF69	1.72250	29.2	1.72883	29.0	9.0	2.93	PBS
723380		S-BAH28		1.72342	38.0	1.72794	37.7	6.6	3.67	BABS
728283	TΦ7			1.72822	28.3	1.73429	28.1	9.3	4.52	PBS
728284			SF10	1.72825	28.4	1.73430	28.2	7.5	4.28	PBS
728285		S-TIH10		1.72825	28.5	1.73429	28.2	8.0	3.06	TS
728285			N-SF10	1.72828	28.5	1.73430	28.3	9.4	3.05	PBS
729541		S-LAL19		1.72916	54.1	1.73237	53.9	5.4	3.98	LBS
729545			N-LAK34	1.72916	54.5	1.73235	54.3	5.8	4.02	LBS
729547		S-LAL18		1.72916	54.7	1.73234	54.5	5.9	4.18	LBS
731405		L-LAM69		1.73077	40.5	1.73505	40.3	8.6	3.24	LBS
734515		S-LAL59		1.73400	51.5	1.73739	51.2	5.5	4.04	LBS
735488	CTK10			1.73485	48.8	1.73843	48.5	5.3	4.10	LBS
738323		S-NBH53		1.73800	32.3	1.74341	32.0	6.9	3.28	BABS
738323		S-NBH53V		1.73800	32.3	1.74340	32.1	7.1	3.19	BABS
740275	TΦ4			1.74002	27.0	1.76171	27.3	8.3	4.77	PBS
740283		S-TIH3		1.74000	28.3	1.74617	28.1	8.5	3.11	TS
741278		S-TIH13		1.74077	27.8	1.74705	27.6	8.3	3.10	TS
741527		S-LAL61		1.74100	52.6	1.74435	52.4	5.7	4.04	LBS
742502	CTK9			1.74253	50.2	1.74605	50.0	5.1	4.11	LBS
743493		S-LAM60		1.74320	49.3	1.74678	49.1	5.4	4.06	LBS
743493		L-LAM60		1.74320	49.3	1.74679	49.1	7.4	4.20	LBS
743494			N-LAF35	1.74330	49.4	1.74688	49.2	5.3	4.12	LBS
744448		S-LAM2		1.74400	44.8	1.74795	44.5	7.4	4.32	LBS
744449			N-LAF2	1.74397	44.9	1.74791	44.6	8.1	4.30	LBS
744504	CTK19			1.74413	50.4	1.74765	50.2	5.9	4.09	LBS
749348			N-LAF7	1.74950	34.8	1.75459	34.6	7.3	3.73	LBS
750350			LAFN7	1.74950	35.0	1.75458	34.7	5.3	4.38	LBS
750353		S-LAM7		1.74950	35.3	1.75453	35.0	6.7	3.81	LBS
750353		S-NBH51		1.74950	35.3	1.75453	35.1	7.3	3.29	BABS
755274			N-SF4	1.75513	27.4	1.76164	27.2	9.5	3.15	PBS
755275		S-TIH4		1.75520	27.5	1.76167	27.3	8.5	3.15	TS
755276			SF4	1.75520	27.6	1.76167	27.4	8.0	4.79	PBS
755281	TΦ5			1.75523	28.7	1.74623	27.9	8.2	4.65	PBS

code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
755411	ТБФ3			1.75585	41.2	1.76021	40.9	7.5	4.47	LBS
755457			P-LAF37	1.75550	45.7	1.75944	45.4	6.3	3.99	LBS
755523		S-YGH51		1.75500	52.3	1.75844	52.1	5.8	4.40	GYB
755523			N-LAK33B	1.75500	52.3	1.75844	52.1	5.8	4.22	LBS
757478		S-LAM54		1.75700	47.8	1.76076	47.6	5.7	4.08	LBS
762265		S-TIH14		1.76182	26.5	1.76859	26.3	8.7	3.17	TS
762265			N-SF14	1.76182	26.5	1.76859	26.3	9.4	3.12	PBS
762401		S-LAM55		1.76200	40.1	1.76651	39.8	7.1	4.22	LBS
764485		S-LAH96		1.76385	48.5	1.76760	48.2	7.0	4.54	LBS
765491		L-LAH91		1.76450	49.1	1.76821	48.9	5.7	4.29	LBS
773496		S-LAH66		1.77250	49.6	1.77621	49.4	6.2	4.23	LBS
773496			N-LAF34	1.77250	49.6	1.77621	49.4	5.8	4.24	LBS
774496	CTK20			1.77400	49.6	1.77771	49.3	7.3	4.93	LBS
778380	ТБФ4			1.77877	38.1	1.78362	37.8	7.5	4.46	LBS
785257		S-TIH11		1.78472	25.7	1.79192	25.5	8.9	3.24	TS
785257			N-SF11	1.78472	25.7	1.79192	25.5	8.5	3.22	PBS
785257	ТФ12			1.78472	25.7	1.79191	25.5	8.6	3.25	PBS
785258			SF11	1.78472	25.8	1.79190	25.6	6.1	4.74	PBS
785261			SF56A	1.78470	26.1	1.79180	25.9	7.9	4.92	PBS
785261	ТФ13			1.78470	26.1	1.79180	25.9	8.2	4.99	PBS
785263		S-TIH23		1.78470	26.3	1.79173	26.1	8.8	3.30	TS
786441			N-LAF33	1.78582	44.1	1.79007	43.8	5.6	4.36	LBS
786442		S-LAH51		1.78590	44.2	1.79012	44.0	5.9	4.40	LBS
786442	CTK16			1.78590	44.2	1.79013	43.9	5.9	4.39	LBS
788474		S-LAH64		1.78800	47.4	1.79196	47.1	6.1	4.30	LBS
788475			N-LAF21	1.78800	47.5	1.79195	47.3	6.0	4.28	LBS
800299		S-NBH55		1.80000	29.8	1.80633	29.6	8.2	3.68	BABS
800422		S-LAH52		1.79952	42.2	1.80401	42.0	6.0	4.41	LBS
801350		S-LAM66	N-LASF45	1.80100	35.0	1.80642	34.7	7.9	3.55	LBS
801350			N-LASF45HT	1.80107	35.0	1.80650	34.7	7.4	3.63	LBS
801350		S-LAH63		1.80107	35.0	1.80650	34.7	7.4	3.63	LBS
804396		S-LAH65VS		1.80440	39.6	1.80922	39.3	5.8	4.34	LBS
804465			N-LASF44	1.80400	46.5	1.80811	46.3	6.1	4.46	LBS
804465		S-LAH65V		1.80420	46.5	1.80832	46.3	6.2	4.44	LBS
805254		S-TIH6		1.80518	25.4	1.81264	25.2	8.9	3.37	TS
805254			N-SF6	1.80518	25.4	1.81264	25.2	8.9	3.37	PBS
805254			N-SF6HT	1.80518	25.4	1.81266	25.2	9.0	3.37	PBS
805254			N-SF6HTultra	1.80518	25.4	1.81266	25.2	9.0	3.37	PBS
805254			SF6	1.80518	25.4	1.81266	25.2	9.0	3.37	PBS
805254			SF6HT	1.80518	25.4	1.81265	25.2	8.1	5.18	PBS
806254	ТФ10			1.80627	25.4	1.81377	25.2	7.5	5.19	PBS
806406			N-LASF43	1.80610	40.6	1.81081	40.4	5.5	4.26	LBS
806409		S-LAH53		1.80610	40.9	1.81078	40.7	5.9	4.43	LBS
806409		S-LAH53V		1.80610	40.9	1.81078	40.7	5.8	4.41	LBS
806409		L-LAH53		1.80625	40.9	1.81093	40.7	5.9	4.49	LBS
806409			P-LASF47	1.80610	40.9	1.81078	40.7	6.0	4.54	LBS
808228		S-NPH1		1.80809	22.8	1.81643	22.6	8.3	3.29	BABP
808228		S-NPH1W		1.80809	22.8	1.81643	22.6	8.3	3.29	BABP



code $n_d-v_d$	russian	ohara	schott	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	polishing slurry type
808405		L-LAH84		1.80835	40.6	1.81309	40.3	6.4	4.62	LBS
809405			P-LASF50	1.80860	40.5	1.81335	40.2	5.9	4.54	LBS
809410	ТБФ5			1.80880	41.0	1.81348	40.7	6.4	4.55	LBS
810409			P-LASF51	1.81000	40.9	1.81470	40.7	6.0	4.58	LBS
810410	ТБФ9			1.81000	41.0	1.81469	40.8	6.6	4.56	LBS
814334	ТБФ10			1.81481	33.4	1.82057	33.2	7.3	4.22	LBS
816466		S-LAH59		1.81600	46.6	1.82017	46.4	6.3	5.07	LBS
832401		L-LAH90		1.83220	40.1	1.83713	39.8	6.3	4.65	LBS
834372		S-LAH60		1.83400	37.2	1.83932	36.9	5.6	4.43	LBS
834372		S-LAH60V		1.83400	37.2	1.83931	37.0	5.8	4.43	LBS
834373			N-LASF40	1.83404	37.3	1.83935	37.0	5.8	4.43	LBS
835427		S-LAH55V		1.83481	42.7	1.83945	42.5	6.2	4.73	LBS
835427		S-LAH55VS		1.83481	42.7	1.83945	42.5	6.3	4.58	LBS
835427	ТБФ11			1.83481	42.7	1.83945	42.5	6.4	4.56	LBS
835431			N-LASF41	1.83501	43.1	1.83961	42.9	6.2	4.85	LBS
847238		S-TIH53		1.84666	23.8	1.85504	23.6	8.8	3.54	TS
847238		S-TIH53W		1.84666	23.8	1.85504	23.6	8.8	3.54	TS
847238			N-SF57	1.84666	23.8	1.85504	23.6	8.5	3.53	PBS
847238			N-SF57HT	1.84666	23.8	1.85504	23.6	8.5	3.53	PBS
847238			N-SF57HTultra	1.84666	23.8	1.85504	23.6	8.5	3.53	PBS
847238			SF57	1.84666	23.8	1.85504	23.6	8.3	5.51	PBS
847238			SF57HTultra	1.84666	23.8	1.85504	23.6	8.3	5.51	PBS
847239		S-NPH53		1.84666	23.9	1.85500	23.7	7.4	3.78	BABP
850300		S-NBH57		1.85025	30.1	1.85694	29.8	7.7	4.00	BABP
850322			N-LASF9	1.85025	32.2	1.85650	31.9	7.4	4.41	LBS
850322			N-LASF9HT	1.85025	32.2	1.85650	31.9	7.4	4.41	LBS
850323		S-LAH71		1.85026	32.3	1.85649	32.0	7.7	4.36	LBS
852408		S-LAH89		1.85150	40.8	1.85646	40.5	6.8	4.70	LBS
854404		L-LAH85V		1.85400	40.4	1.85903	40.1	6.3	5.25	LBS
855248		S-NBH56		1.85478	24.8	1.86290	24.6	7.7	3.49	BABS
855366	ТБФ8			1.85544	36.6	1.86099	36.3	6.0	4.50	LBS
859227		S-NPH5		1.85896	22.7	1.86784	22.5	7.6	3.71	BABP
861371		L-LAH94		1.86100	37.1	1.86650	36.9	6.2	4.89	LBS
883408		S-LAH58		1.88300	40.8	1.88815	40.5	6.6	5.52	LBS
883408			N-LASF31A	1.88300	40.8	1.88815	40.5	6.7	5.51	LBS
892371		S-LAH92		1.89190	37.1	1.89760	36.9	7.5	4.87	LBS
893204		S-NPH4		1.89286	20.4	1.90314	20.2	7.3	3.61	BABP
903310		L-LAH86		1.90270	31.0	1.90958	30.8	6.1	4.90	LBS
904313		S-LAH95		1.90366	31.3	1.91048	31.1	7.3	4.64	LBS
904313			N-LASF46A	1.90366	31.3	1.91048	31.1	6.0	4.45	LBS
904313			N-LASF46B	1.90366	31.3	1.91048	31.1	6.0	4.51	LBS
905350		S-LAH93		1.90525	35.0	1.91137	34.8	7.0	4.83	LBS
917316		S-LAH88		1.91650	31.6	1.92336	31.4	5.7	4.74	LBS
923189		S-NPH2		1.92286	18.9	1.93429	18.7	6.7	3.58	BABP
923209			N-SF66	1.92286	20.9	1.93322	20.7	5.9	4.00	PBS
959175		S-NPH3		1.95906	17.5	1.97189	17.3	5.9	3.59	BABP
2003283		S-LAH79		2.00330	28.3	2.01169	28.1	6.0	5.23	LBS
2005210			P-SF68	2.00520	21.0	2.01643	20.8	8.4	6.19	PBS
2022291			LASF35	2.02204	29.1	2.03035	28.8	7.4	5.41	LBS