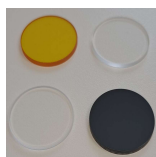


## Witness Samples For Optical Coating



Witness samples for optical coating are optical windows from different glass materials double side polished with L/2 and s/d 60/40. The **diameter** of the windows is **25mm** and the **thickness** is either **1mm** or **2mm**.

### prices (EUR/pc) for windows from stock (1-20pcs)

code $n_d-v_d$	glass	$n_d$	$v_d$	$n_e$	$v_e$	CTE ppm/K	density g/cm <sup>3</sup>	dia 25 x 1mm EUR/pc	dia 25 x 2mm EUR/pc
378105	<b>MgF<sub>2</sub></b>	o1.3777 e1.3895	o104.9 e105.3	o1.3786 e1.3904	o105.2 e105.5	llc 8.8 lc 13.1	3.18	<b>29.00</b>	<b>47.00</b>
434943	<b>CaF<sub>2</sub></b>	1.4339	94.3	1.4349	94.5	18.4	3.18	<b>16.00</b>	<b>18.00</b>
438945	<b>H-FK95N</b>	1.4378	94.5	1.4389	94.1	14.4	3.52	<b>8.00</b>	<b>8.20</b>
439948	<b>S-FPL55</b>	1.4388	94.7	1.4399	94.2	13.6	3.59	<b>41.00</b>	<b>43.00</b>
439950	<b>S-FPL53</b>	1.4388	94.9	1.4399	94.5	14.5	3.62	<b>47.00</b>	<b>49.00</b>
456909	<b>N-FK58</b>	1.4560	90.9	1.4572	90.5	13.7	3.65	<b>73.00</b>	<b>75.00</b>
457903	<b>H-FK71</b>	1.4565	90.3	1.4577	89.8	13.6	3.63	<b>8.00</b>	<b>8.20</b>
458678	<b>UVFS</b>	1.4585	67.8	1.4601	67.7	5.5	2.23	<b>5.50</b>	<b>6.00</b>
458678	<b>UVIFS</b>	1.4585	67.8	1.4601	67.7	5.5	2.23	<b>18.00</b>	<b>23.00</b>
487702	<b>S-FSL5</b>	1.4875	70.2	1.4892	70.0	9.0	2.46	<b>23.00</b>	<b>25.00</b>
487704	<b>N-FK5</b>	1.4875	70.4	1.4891	70.2	9.2	2.45	<b>27.00</b>	<b>29.00</b>
487845	<b>N-FK51A</b>	1.4866	84.5	1.4879	84.1	12.7	3.68	<b>55.00</b>	<b>59.00</b>
497816	<b>S-FPL51</b>	1.4970	81.5	1.4985	81.1	13.1	3.62	<b>29.00</b>	<b>31.00</b>
497816	<b>N-PK52A</b>	1.4970	81.6	1.4985	81.2	13.0	3.70	<b>49.00</b>	<b>53.00</b>
497816	<b>H-FK61</b>	1.4970	81.6	1.4985	81.2	13.1	3.70	<b>8.00</b>	<b>8.20</b>
516641	<b>S-BSL7</b>	1.5163	64.1	1.5183	63.9	7.2	2.52	<b>4.50</b>	<b>5.00</b>
517642	<b>N-BK7</b>	1.5168	64.2	1.5187	64.0	7.1	2.51	<b>4.50</b>	<b>5.00</b>
517642	<b>H-K9L</b>	1.5168	64.2	1.5187	64.0	7.1	2.51	<b>4.50</b>	<b>5.00</b>
523588	<b>B270</b>	1.5230	58.8	1.5251	58.3	9.4	2.56	<b>4.00</b>	<b>4.50</b>
540595	<b>S-BAL12</b>	1.5400	59.5	1.5421	59.2	8.6	2.75	<b>25.00</b>	<b>27.00</b>
540597	<b>N-BAK2</b>	1.5400	59.7	1.5421	59.4	8.0	2.86	<b>25.00</b>	<b>27.00</b>

## Witness Samples For Optical Coating

code n <sub>d</sub> -n <sub>e</sub>	glass	n <sub>d</sub>	v <sub>d</sub>	n <sub>e</sub>	v <sub>e</sub>	CTE ppm/K	density g/cm <sup>3</sup>	dia 25 x 1mm EUR/pc	dia 25 x 2mm EUR/pc
547628	<b>H-BaK3</b>	1.5468	62.8	1.5489	62.4	6.2	2.84	<b>8.00</b>	<b>8.20</b>
569560	<b>N-BAK4</b>	1.5688	56.0	1.5713	55.7	7.0	2.84	<b>25.00</b>	<b>27.00</b>
569563	<b>S-BAL14</b>	1.5688	56.4	1.5712	56.1	8.0	2.89	<b>23.00</b>	<b>25.00</b>
570495	<b>H-BaF2</b>	1.5697	49.5	1.5724	49.1	8.2	2.82	<b>8.00</b>	<b>8.20</b>
589612	<b>S-BAL35</b>	1.5891	61.1	1.5914	60.9	5.7	3.31	<b>23.00</b>	<b>25.00</b>
589613	<b>N-SK5</b>	1.5891	61.3	1.5914	61.0	5.5	3.30	<b>25.00</b>	<b>27.00</b>
593673	<b>H-ZPK3</b>	1.5935	67.3	1.5956	67.1	9.6	3.36	<b>8.00</b>	<b>8.20</b>
607567	<b>N-SK2</b>	1.6074	56.7	1.6099	56.4	6.0	3.55	<b>25.00</b>	<b>27.00</b>
607568	<b>S-BSM2</b>	1.6074	56.8	1.6099	56.5	6.5	3.53	<b>25.00</b>	<b>27.00</b>
611558	<b>H-ZK5</b>	1.6111	55.8	1.6114	55.5	8.6	3.58	<b>8.00</b>	<b>8.20</b>
613370	<b>H-F2</b>	1.6130	37.0	1.6139	36.7	7.8	2.65	<b>8.00</b>	<b>8.20</b>
613586	<b>N-SK4</b>	1.6127	58.6	1.6152	58.4	6.5	3.54	<b>31.00</b>	<b>33.00</b>
613587	<b>S-BSM4</b>	1.6127	58.7	1.6152	58.5	6.7	3.57	<b>25.00</b>	<b>27.00</b>
648338	<b>S-TIM22</b>	1.6477	33.8	1.6522	33.5	8.3	2.79	<b>23.00</b>	<b>25.00</b>
648338	<b>N-SF2</b>	1.6477	33.8	1.6522	33.6	6.7	2.72	<b>27.00</b>	<b>29.00</b>
648338	<b>H-ZF1</b>	1.6477	33.8	1.6522	33.6	9.1	2.73	<b>8.00</b>	<b>8.20</b>
729545	<b>N-LAK34</b>	1.7292	54.5	1.7324	54.3	5.8	4.02	<b>35.00</b>	<b>37.00</b>
729547	<b>S-LAL18</b>	1.7292	54.7	1.7323	54.5	5.9	4.18	<b>27.00</b>	<b>29.00</b>
729547	<b>H-LaK52</b>	1.7292	54.7	1.7323	54.5	5.6	4.02	<b>8.00</b>	<b>8.20</b>
755274	<b>N-SF4</b>	1.7551	27.4	1.7616	27.2	9.5	3.15	<b>29.00</b>	<b>31.00</b>
755275	<b>S-TIH4</b>	1.7552	27.5	1.7617	27.3	8.5	3.15	<b>25.00</b>	<b>27.00</b>
755275	<b>H-ZF6</b>	1.7552	27.5	1.7617	27.3	8.7	3.26	<b>8.00</b>	<b>8.20</b>
762401	<b>H-LaF55</b>	1.7620	40.1	1.7665	39.8	8.2	4.30	<b>8.00</b>	<b>8.20</b>
768725	<b>Sapphire</b>	o1.7681 e1.7601	o72.5 e73.1	o1.7707 e1.7626	o72.0 e72.6	llc 6.7 lc 5.0	3.98	<b>13.00</b>	<b>15.00</b>
773496	<b>S-LAH66</b>	1.7725	49.6	1.7762	49.4	6.2	4.23	<b>25.00</b>	<b>27.00</b>
773496	<b>N-LAF34</b>	1.7725	49.6	1.7762	49.4	5.8	4.24	<b>29.00</b>	<b>31.00</b>

## Witness Samples For Optical Coating

code n <sub>d</sub> -n <sub>e</sub>	glass	n <sub>d</sub>	v <sub>d</sub>	n <sub>e</sub>	v <sub>e</sub>	CTE ppm/K	density g/cm <sup>3</sup>	dia 25 x 1mm EUR/pc	dia 25 x 2mm EUR/pc
805254	<b>S-TIH6</b>	1.8052	25.4	1.8126	25.2	8.9	3.37	<b>25.00</b>	<b>27.00</b>
808227	<b>H-ZF71LA</b>	1.8081	22.7	1.8165	22.5	9.3	3.30	<b>8.00</b>	<b>8.20</b>
847238	<b>S-TIH53</b>	1.8467	23.8	1.8550	23.6	8.8	3.54	<b>25.00</b>	<b>27.00</b>
847238	<b>N-SF57</b>	1.8467	23.8	1.8550	23.6	8.5	3.53	<b>29.00</b>	<b>31.00</b>
904313	<b>S-LAH95</b>	1.9037	31.3	1.9105	31.1	7.3	6.64	<b>25.00</b>	<b>27.00</b>
904313	<b>N-LASF46A</b>	1.9037	31.3	1.9105	31.1	6.0	4.45	<b>45.00</b>	<b>47.00</b>
904314	<b>H-ZLaF75A</b>	1.9037	31.4	1.9105	31.2	7.0	4.56	<b>8.00</b>	<b>8.20</b>
923189	<b>S-NPH2</b>	1.9229	18.9	1.9343	18.7	6.7	3.58	<b>39.00</b>	<b>41.00</b>
923209	<b>H-ZF62</b>	1.9229	20.9	1.9332	20.7	6.4	4.01	<b>8.00</b>	<b>8.20</b>
923209	<b>N-SF66</b>	1.9229	20.9	1.9332	20.7	5.9	4.00	<b>35.00</b>	<b>37.00</b>
2252114 @4μm	<b>ZnS</b>	2.252 @4μm	114 @4μm	2.200 @10μm	23 @10μm	6.5	4.1	<b>44.00</b>	<b>54.00</b>
2433177 @4μm	<b>ZnSe</b>	2.4331 @4μm	177 @4μm	2.4065 @10μm	58 @10μm	62.0	5.3	<b>39.00</b>	<b>51.00</b>
3419220 @4μm	<b>Si</b>	3.419 @4μm	220 @4μm	-	-	156	2.3	<b>15.00</b>	<b>17.00</b>
4025103 @4μm	<b>Ge</b>	4.0249 @4μm	103 @4μm	4.0039 @10μm	1202 @10μm	400	5.3	<b>33.00</b>	<b>43.00</b>