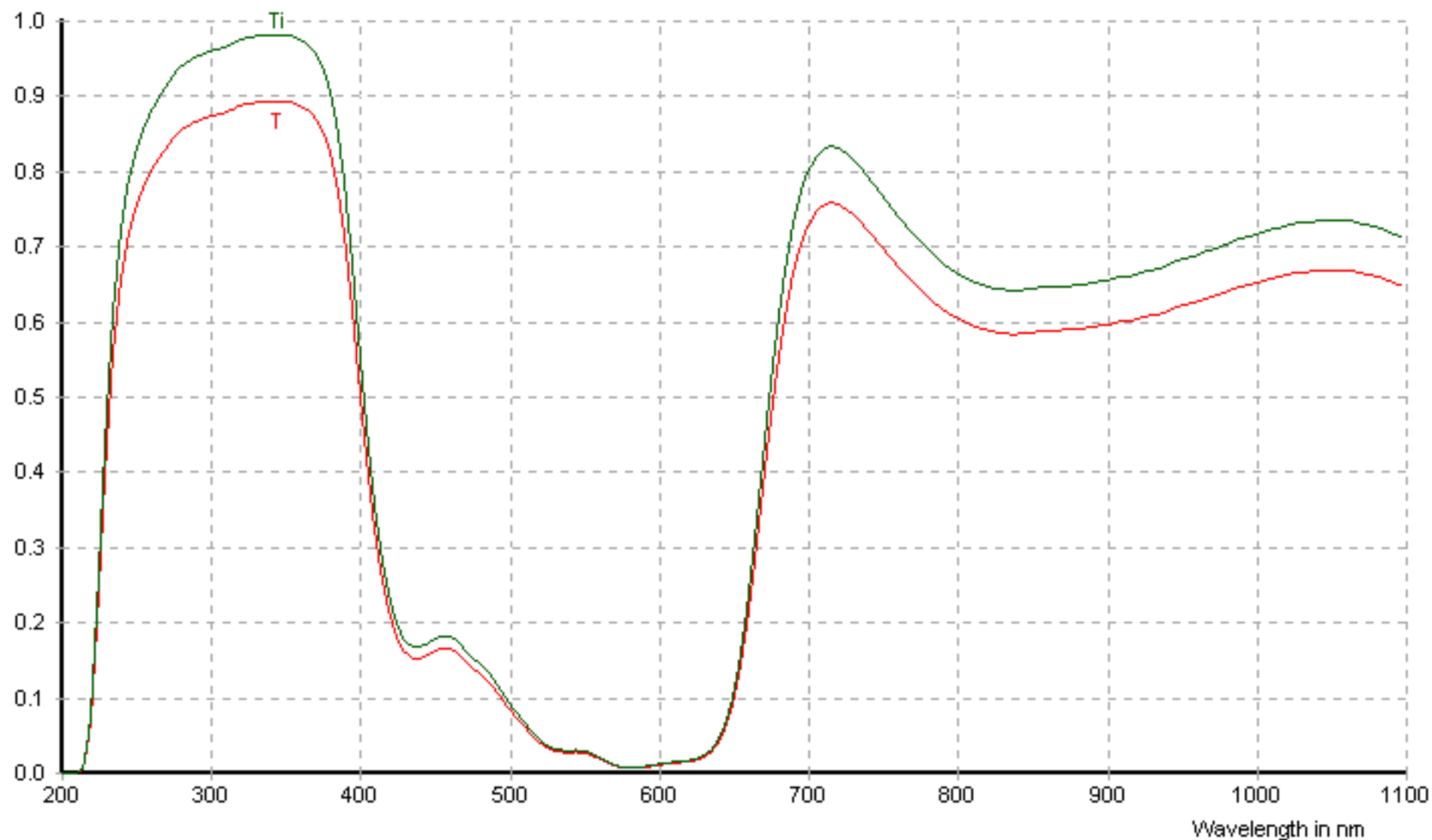


Thickness in mm : 1.0
Wavelength in nm :
Transmittance :
Internal Transmittance :

UG 5

SCHOTT
TOTAL CUSTOMER CARE



Reflection factor P_d	0.91
Bubble content Bubble class	2
Chemical resistance FR class	0
SR class	3.0
AR class	2.0

Density ρ [g/cm ³]	2.85
Transformation temperature T _g [°C]	462
Thermal expansion $\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	8.1
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	9.4
Temperature coefficient T _k [nm/°C]	

Per DIN 58191 BP 318/173
Per DIN 58191

Ionically colored glass

Limit values of τ_i
for thickness $d_i = 1$ mm

Wave-length [nm]	Limits	Value from catalog curve
254	≥0.80	0.85
308	≥0.94	0.96
405	≤0.50	0.46
546	≤0.05	0.03
633	≤0.05	0.03
725	≤0.85	0.83

Refractive index n

λ [nm]	Element	n
253.7	Hg	1.60
365	Hg	1.56
587.6	He	1.54
1014	Hg	1.53

Tristimulus values

	d	x	y	Y	λ_d	P_e
	[mm]				[nm]	
A	1					
2856	2					
K	3					
	5					
	1					
3200	2					
K	3					
	5					
	1					
D ₆₅	2					
	3					
	5					

Application notes

Band pass filter
- see section 6.7.3

[!!]

Long-term changes in the polished surface are possible
- see section 5.5

∇

Transmission changes are possible under the action of intense ultraviolet radiation
- see section 8.3

Status June 1997

Transmittance τ and internal transmittance τ_i at $d = 1$ mm

λ [nm]	τ	τ_i	λ [nm]	τ	τ_i
200	<1·10 ⁻⁵	<1·10 ⁻⁵	700	0.73	0.80
210	2·10 ⁻⁵	2·10 ⁻⁵	710	0.75	0.83
220	0.06	0.07	720	0.76	0.83
230	0.41	0.45	730	0.74	0.82
240	0.65	0.72	740	0.72	0.80
250	0.75	0.83	750	0.70	0.77
260	0.80	0.88	760	0.68	0.74
270	0.83	0.91	770	0.65	0.72
280	0.85	0.94	780	0.64	0.70
290	0.87	0.95	790	0.62	0.68
300	0.87	0.96	800	0.61	0.67
310	0.88	0.97	850	0.59	0.64
320	0.89	0.98	900	0.60	0.65
330	0.89	0.98	950	0.62	0.68
340	0.89	0.98	1000	0.65	0.72
350	0.89	0.98	1060	0.67	0.74
360	0.89	0.98	1100	0.65	0.71
370	0.87	0.96	1200	0.51	0.56
380	0.83	0.91	1300	0.40	0.44
390	0.72	0.79	1400	0.40	0.44
400	0.52	0.57	1500	0.39	0.43
410	0.33	0.36	1600	0.41	0.45
420	0.21	0.24	1700	0.45	0.49
430	0.16	0.18	1800	0.46	0.50
440	0.15	0.17	1900	0.47	0.52
450	0.16	0.18	2000	0.52	0.57
460	0.17	0.18	2100	0.55	0.60
470	0.15	0.17	2200	0.56	0.61
480	0.13	0.15	2300	0.55	0.60
490	0.11	0.13	2400	0.55	0.60
500	0.09	0.10	2500	0.54	0.59
510	0.06	0.07	2600	0.47	0.52
520	0.04	0.05	2700	0.40	0.44
530	0.03	0.03	2800	0.11	0.12
540	0.03	0.03	2900	0.009	0.01
550	0.03	0.03	3000	0.004	0.004
560	0.02	0.02	3200	4·10 ⁻⁴	4·10 ⁻⁴
570	0.01	0.01	3400	2·10 ⁻⁴	2·10 ⁻⁴
580	0.007	0.008	3600	3·10 ⁻⁴	3·10 ⁻⁴
590	0.008	0.009	3800	4·10 ⁻⁴	4·10 ⁻⁴
600	0.01	0.01	4000	2·10 ⁻⁴	2·10 ⁻⁴
610	0.01	0.02	4200	3·10 ⁻⁵	3·10 ⁻⁵
620	0.02	0.02	4400	9·10 ⁻⁵	1·10 ⁻⁴
630	0.02	0.02	4600	3·10 ⁻⁴	3·10 ⁻⁴
640	0.04	0.04	4800	5·10 ⁻⁴	5·10 ⁻⁴
650	0.09	0.10	5000	5·10 ⁻⁴	5·10 ⁻⁴
660	0.21	0.23	5200	9·10 ⁻⁵	1·10 ⁻⁴
670	0.38	0.41			
680	0.54	0.60			
690	0.66	0.73			