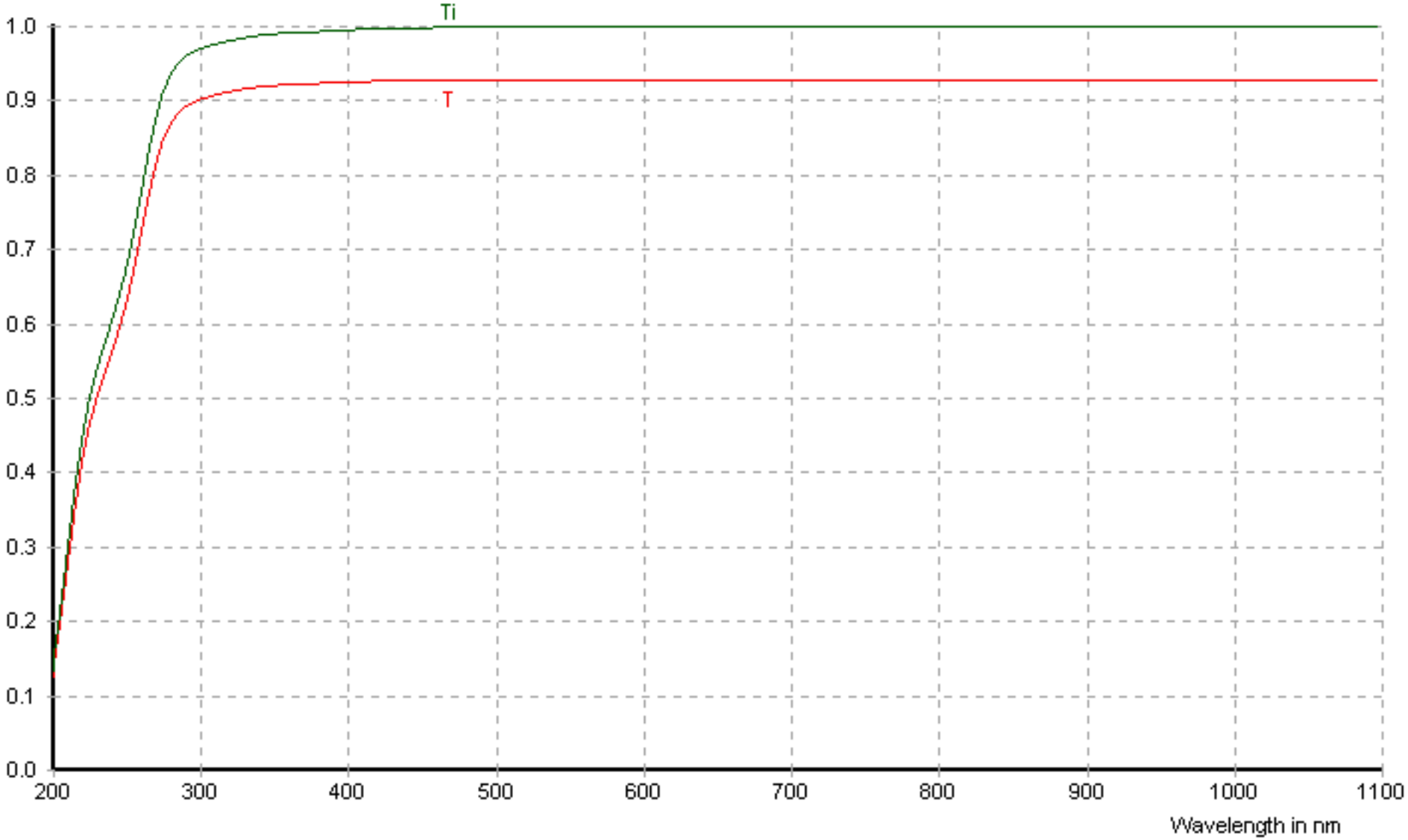
Thickness in mm : 2.0
Wavelength in nm :
Transmittance :
Internal Transmittance :

WG 225

SCHOTT
TOTAL CUSTOMER CARE



SCHOTT

TOTAL CUSTOMER CARE

WG 225

Reflection factor

P_d	0.93

Bubble content

Bubble class	1

Chemical resistance

FR class	3
SR class	51.3
AR class	3.3

Density

ρ [g/cm³]	2.17

Transformation temperature

Tg [°C]	437

Thermal expansion

$\alpha_{-30/+70°C}$ [10^{-6}/K]	3.8
$\alpha_{20/300°C}$ [10^{-6}/K]	4.1

Temperature coefficient

T_k [nm/°C]	0.02

Per DIN 58191 **LP 225**
Per DIN 58191

Base glass

Tolerances for long pass filters
for thickness d = 2 mm

λ_C (τ_i = 0,5 mm) [nm]	225+5/-15
λ_S (τ_{iS} = $1 \cdot 10^{-5}$) [nm]	280

Refractive index n

λ [nm]	Element	n
253.7	Hg	1.52
365	Hg	1.49
587.6	He	1.47
1014	Hg	1.46

Tristimulus values

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

Application notes
Long pass filter
- see section 6.7.1

[!]
Long-term changes in the polished surface are possible under some circumstances
- see section 5.5

V
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 = 2 mm

λ [nm]	τ	τ_i	λ [nm]	τ	τ_i
200	0.13	0.14	700	0.93	1.00
210	0.27	0.29	710	0.93	1.00
220	0.41	0.44	720	0.93	1.00
230	0.50	0.54	730	0.93	1.00
240	0.56	0.60	740	0.93	1.00
250	0.63	0.67	750	0.93	1.00
260	0.72	0.77	760	0.93	1.00
270	0.81	0.87	770	0.93	1.00
280	0.87	0.94	780	0.93	1.00
290	0.89	0.96	790	0.93	1.00
300	0.90	0.97	800	0.93	1.00
310	0.91	0.98	850	0.93	1.00
320	0.91	0.98	900	0.93	1.00
330	0.92	0.99	950	0.93	1.00
340	0.92	0.99	1000	0.93	1.00
350	0.92	0.99	1060	0.93	1.00
360	0.92	0.99	1100	0.93	1.00
370	0.92	0.99	1200	0.93	1.00
380	0.92	0.99	1300	0.93	1.00
390	0.92	0.99	1400	0.93	1.00
400	0.93	1.00	1500	0.93	1.00
410	0.93	1.00	1600	0.93	1.00
420	0.93	1.00	1700	0.93	1.00
430	0.93	1.00	1800	0.93	1.00
440	0.93	1.00	1900	0.93	1.00
450	0.93	1.00	2000	0.92	0.99
460	0.93	1.00	2100	0.92	0.99
470	0.93	1.00	2200	0.92	0.99
480	0.93	1.00	2300	0.91	0.98
490	0.93	1.00	2400	0.85	0.91
500	0.93	1.00	2500	0.84	0.90
510	0.93	1.00	2600	0.80	0.86
520	0.93	1.00	2700	0.57	0.61
530	0.93	1.00	2800	0.03	0.03
540	0.93	1.00	2900	0.07	0.07
550	0.93	1.00	3000	0.13	0.14
560	0.93	1.00	3200	0.24	0.26
570	0.93	1.00	3400	0.04	0.04
580	0.93	1.00	3600	$9 \cdot 10^{-5}$	$1 \cdot 10^{-4}$
590	0.93	1.00	3800	0.002	0.002
600	0.93	1.00	4000	$5 \cdot 10^{-4}$	$5 \cdot 10^{-4}$
610	0.93	1.00	4200	$9 \cdot 10^{-4}$	0.001
620	0.93	1.00	4400	$9 \cdot 10^{-5}$	$1 \cdot 10^{-4}$
630	0.93	1.00	4600	$<1 \cdot 10^{-5}$	$<1 \cdot 10^{-5}$
640	0.93	1.00	4800	$<1 \cdot 10^{-5}$	$<1 \cdot 10^{-5}$
650	0.93	1.00	5000	$<1 \cdot 10^{-5}$	$<1 \cdot 10^{-5}$
660	0.93	1.00	5200	$<1 \cdot 10^{-5}$	$<1 \cdot 10^{-5}$
670	0.93	1.00			
680	0.93	1.00			
690	0.93	1.00			