

FILTER'99 - CATALOG OPTICAL GLASS FILTER

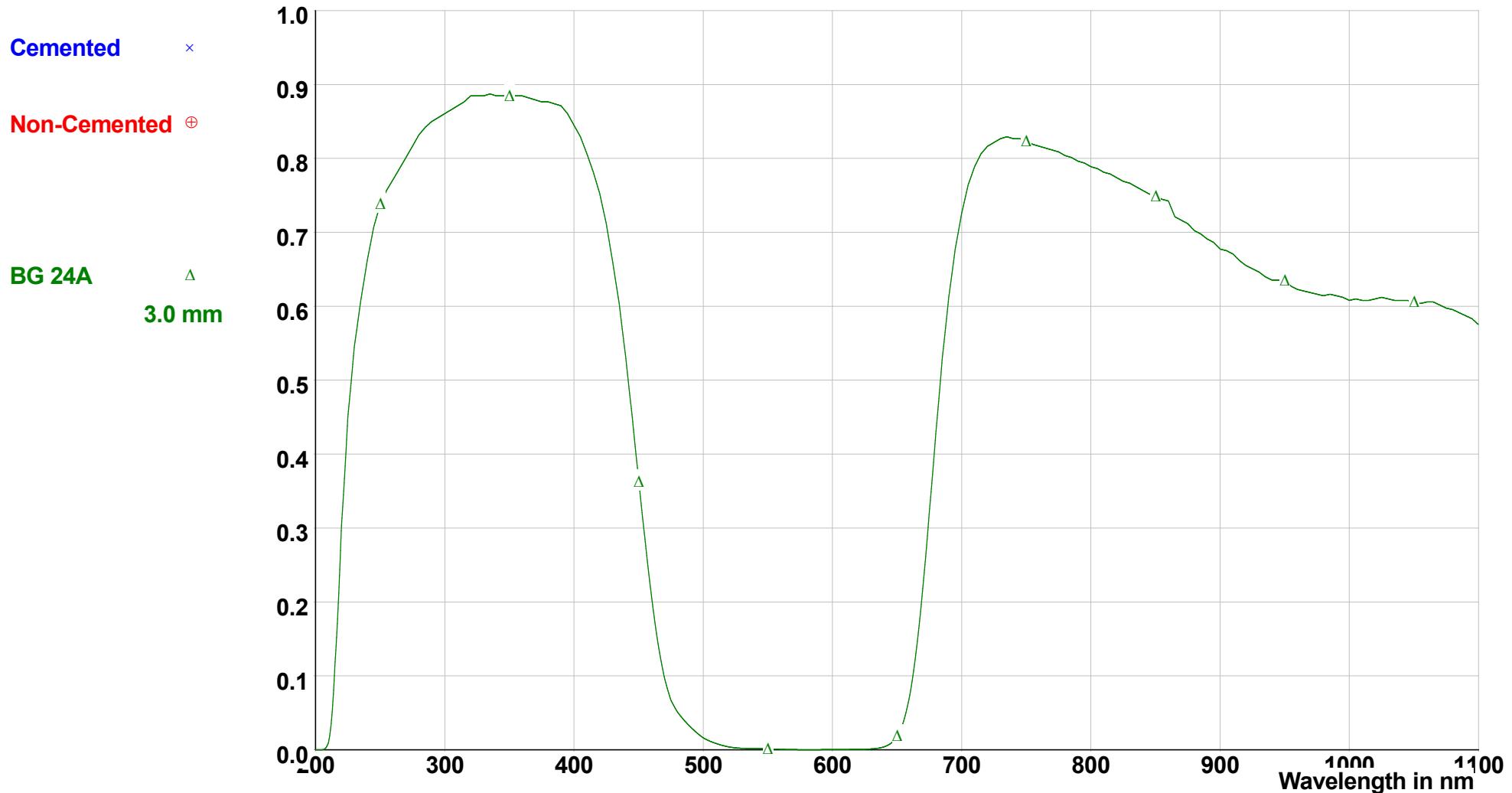
TRANSMITTANCE LINEAR

SCHOTT
glass made of ideas

Schott BG24a Blue Multi Bandpass Filter

<http://www.galvoptics.co.uk/products/filters/schott-bandpass-filters/>

Please CLICK link above to buy ONLINE



sales@galvoptics.co.uk

Reflection factor

P_d 0.92

Bubble content

Bubble class 1

Chemical resistance

FR class 0

SR class 3.0

AR class 2.0

Density

ρ [g/cm³] 2.72

Transformation temperature

T_g [°C] 460

Thermal expansion

α_{-30/+70°C} [10⁻⁶/K] 8.5

α_{20/300°C} [10⁻⁶/K] 9.7

Temperature coefficient

T_k [nm/°C]

Per DIN 58191

BP 342/253

Ionically colored glass

Limit values of τ_i

for thickness d = 1 mm

Wave-length [nm]	Limits	Value from catalog curve
254	≥0.84	0.94
365	≥0.95	0.99
488	≤0.41	0.34
633	≤0.24	0.12

Refractive index n

λ [nm]	Element	n
253.7	Hg	1.59
365	Hg	1.55
587.6	He	1.53
1014	Hg	1.52

Tristimulus values

	d [mm]	x	y	Y	λ _d [nm]	P _e
A	1	0.329	0.243	11	443	0.42
2856	2	0.260	0.110	2	-579	0.76
K	3	0.243	0.065	1	-578	0.90
	5	0.238	0.047	0	-578	0.96
	1	0.294	0.219	11	453	0.48
3200	2	0.230	0.092	2	-577	0.78
K	3	0.217	0.052	1	-577	0.90
	5	0.213	0.035	0	-576	0.96
	1	0.199	0.129	13	461	0.67
D ₆₅	2	0.173	0.048	3	449	0.90
	3	0.171	0.026	1	441	0.95
	5	0.173	0.016	0	430	0.97

Application notes

Band pass filter

- see section 6.7.3

[!!]

Long-term changes in the polished surface are possible

- see section 5.5

V

Transmission changes are possible under the action of intense ultraviolet radiation

- see section 8.3

Status June 1997