

Color Filter Glass Types

ULTRAVIOLET	HEBO	Schott	Hoya
Page 4/5	UV 280	≈ WG 280	≈ UV-28
	UV 360	≈ WG 360	≈ UV-36

YELLOW	HEBO	Schott	Hoya
Page 8/9	HY 01	≈ GG 19	
	HY 02	≈ GG 10	

YELLOW	HEBO	Schott	Hoya
Page 12/13	Y 460	≈ GG 455	≈ Y-46
	Y 500	≈ GG 495	≈ Y-50
	Y 510	≈ OG 515	

RED	HEBO	Schott	Hoya
Page 16/17	R 600		≈ R-60
	R 610	≈ RG 610	
	R 630	≈ RG 630	≈ R-62
	R 640	≈ RG 645	≈ R-64

INFRARED	HEBO	Schott	Hoya
Page 20/21	IR 760		≈ IR-76
	IR 780	≈ RG 780	
	IR 800		≈ IR-80
	IR 830	≈ RG 830	≈ IR-83
	IR 850	≈ RG 850	≈ IR-85

BLUE	HEBO	Schott	Hoya
Page 24/25	B 01		
	B 02		≈ B-410
	B 03		
	B 05		≈ B-440

BLUE	HEBO	Schott	Hoya
Page 28/29	B 15		
	B 38	≈ BG 38	

BLUE	HEBO	Schott	Hoya
Page 32/33	B 39	≈ BG 39	
	B 40	≈ BG 40	

ULTRAVIOLET	HEBO	Schott	Hoya
Page 6/7	HU 01	≈ UG 11	≈ U-340
	HU 02	≈ UG 1	≈ U-360
	HU 03	≈ UG 5	≈ U-330

YELLOW	HEBO	Schott	Hoya
Page 10/11	Y 380	≈ GG 375	≈ L-38
	Y 400	≈ GG 400	≈ L-40
	Y 420	≈ GG 420	≈ L-42

ORANGE	HEBO	Schott	Hoya
Page 14/15	O 530	≈ OG 530	
	O 540		≈ O-54
	O 550	≈ OG 550	
	O 565	≈ OG 570	≈ O-56
	O 580	≈ OG 590	≈ O-58

RED	HEBO	Schott	Hoya
Page 18/19	R 650		≈ R-66
	R 670	≈ RG 665	
	R 700	≈ RG 695	≈ R-70
	R 720	≈ RG 715	≈ R-72

INFRARED	HEBO	Schott	Hoya
Page 22/23	HR 01		≈ RM-86
	HR 02	≈ RG 7	≈ RM-90
	HR 03		

BLUE	HEBO	Schott	Hoya
Page 26/27	B 09		
	B 10		
	B 11		≈ B-460
	B 13		
	B 14	≈ BG 14	

BLUE	HEBO	Schott	Hoya
Page 30/31	B 07	≈ BG 7	≈ B-480
	B 12	≈ BG 12	
	B 18	≈ BG 18	
	B 25	≈ BG 25	≈ B-380

GREEN	HEBO	Schott	Hoya
Page 34/35	G 05	≈ VG 5	
	G 06	≈ VG 6	
	G 13		≈ G-545
	G 16		

GREEN	HEBO	Schott	Hoya
Page 36/37	G 08	≈ VG 8	≈ G-533
	G 09	≈ VG 9	
	G 10	≈ VG 10	
	G 11	≈ VG 11	
	G 12		≈ G-550

NEUTRAL DENSITY	HEBO	Schott	Hoya
Page 40/41	ND 01	≈ NG 1	≈ ND-0
	ND 03	≈ NG 3	
	ND 04	≈ NG 4	≈ ND-13
	ND 09	≈ NG 9	≈ ND-03

HEAT ABSORBING	HEBO	Schott	Hoya
Page 44/45	HA 02	≈ KG 2	≈ HA-50
	HA 03	≈ KG 3	≈ HA-30

WAVELENGTH CALIBRATED	HEBO	Schott	Hoya
Page 46/47	WL 01	≈ BG 20	≈ V-10

VIOLET	HEBO	Schott	Hoya
Page 38/39	V 01		≈ B-390
	V 02	≈ BG 3	
	V 03		≈ B-370

NEUTRAL DENSITY	HEBO	Schott	Hoya
Page 42/43	ND 02		
	ND 05	≈ NG 5	≈ ND-25
	ND 06		≈ ND-50
	ND 11	≈ NG 11	≈ ND-70

RISING COLOR	HEBO	Schott	Hoya
Page 44/45	RC 01	(≈ BG 34)	≈ LB-120

The filter glasstypes shown in the charts are available as polished filters manufactured according to your specifications. Raw material is not available.

The polished filters are available in thicknesses from 0.5 up to 10.0 mm and edgelengths from 2.0 up to 200.0 mm (special dimensions upon request).

The designation of each table is as follows:

- 1st column: Filterglass group (Color)
- 2nd column: Designation filter glasstype from HEBO
- 3rd column: Designation of equivalent filter glasstype by Schott
- 4th column: Designation of equivalent filter glasstype by Hoya

The indication of the equivalent filter glasstype of Schott or Hoya is only informative – this does not imply that the filter glasstypes from Hebo is 100% identical with the Schott or Hoya glasses. Please check on the filter datasheets if the material complies with the requirements you have.

Polished samples of the HEBO filters are available from stock in Aalen/Germany of those types where the corresponding Schott designation is shown on the tables. Other samples, delivery terms and prices upon request.

Available sizes of polished samples of HEBO filterglasses:

50 × 50 × 1 mm

50 × 50 × 2 mm

Explantation as to data tables

Y	Tristimulus value
A[2856K]	CIE standard illuminant A, Planckian radiator at 2,855.6 K, light from incandescent bulbs
D65	CIE standard illuminant D65, standard daylight
x, y	Chromaticity coordinates
D_A	Acid durability
D_W	Water durability
N_D	Refractive indice (He 587.6 nm)
α	Mean coefficient of linear thermal expansion
T_g (°C)	Transformation temperature
T_s (°C)	Sag temperature
ρ	Specific gravity (g/cm³)
v	Conversion value
(mired)	Micro reciprocal degree
λ_{ti}	Edge position
λ_p	Limit of the passband
T_p	Filter factor
T_k (nm/°C)	Temperature coefficient

All indications and values in this catalogue are standard values.