

TRANSMISSION OF COLORED GLASSES (Continued)

SECTION II.—JENA GLASSES*

CG 970 neut. corex D 2 mm	CG 980 neut. corex A 2 mm	Wave- length μ	UG 1 dk. viol. tr. u.v. 1 mm	UG 2 dk. viol. tr. u.v. 1 mm	UG 3 violet 1 mm	UG 4 dark violet 1 mm	BG 1 blue tr. u.v. 1 mm	BG 2 blue tr. u.v. 1 mm	BG 3 blue tr. u.v. 1 mm	BG 5 dk. blue abs. red 1 mm	BG 6† dk. blue 1 mm
0	.0115	.281	....	0.01	....	....	0.04	....	0.13	....	....
.0027	.237	.302	0.17	.27	....	0.09	.40	0.04	.69	....	....
.039	.531	.312	.37	.50	0.04	.22	.64	.16	.77	....	....
.305	.753	.334	.69	.80	.55	.59	.93	.63	.92	....	....
.700	.840	.366	.85	.84	.91	.77	.97	.84	.96	0.09	0.06
.860	.879	.405	.08	.02	.85	.07	.97	.70	.86	.33	.34
.902	.884	.436	....	....	.50	.01	.86	.42	.63	.47	.48
....	.885	.480	....	....	.17	.02	.44	.02	.10	.39	.33
....	.887	.509	....	....	.12	.01	.14	....	.01	.19	.12
....	.893	.546	....	....	.15	.02	.04	....	....	.06	.02
....	.897	.578	....	....	.21	....	.05	....	....	.04	.02
....	.900	.644	....	....	.35	....	.01	....	....	.01	.01
....	.900	.700	.01	.12	.46	.21	.51	.32	.06	.13	.08
....	.900	.775	.34	.30	.64	.52	.94	.84	.90	.13	.14
....	.900	.85	.22	.19	.79	.39	.97	.83	.98	.10	.10
....	.900	.95	.11	.12	.93	.39	.93	.74	.94	.12	.12
....	.900	1.05	.07	.09	.97	.37	.86	.61	.81	.15	.15
....	.900	1.15	.05	.07	.98	.32	.76	.50	.64	.19	.18
....	.900	1.30	.04	.06	.99	.28	.58	.41	.39	.24	.23
....	.900	1.45	.04	.06	.99	.27	.45	.38	.27	.29	.27
....	.900	1.60	.03	.06	.99	.26	.40	.37	.19	.34	.31
....	.900	1.80	.04	.06	.99	.25	.44	.38	.20	.42	.38
....	.900	2.00	.04	.06	.99	.32	.50	.41	.28	.49	.46
....	.900	2.40	.11	.11	.98	.51	.69	.51	.47	.68	.66
....	.900	3.00	.17	.19	.86	.35	.55	.35	.49	.37	.36

Wave- length μ	BG 7 dk. blue abs. red 1 mm	BG 9 blue-green 1 mm	BG 10 blue-green 1 mm	BG 11 lt. blue (Nd) 1 mm	BG 12 blue abs. red 1 mm	BG 13 med. blue 1 mm	BG 14 bright blue 1 mm	BG 15 blue 1 mm	BG 16 blue 1 mm
.281	....	....	....	0.02	....	....	....	....	....
.302	....	....	....	.21	....	....	....	....	....
.312	....	0.01	....	.38	0.02	....	0.13	0.03	....
.334	0.02	.21	0.12	.80	.39	....	.71	.33	0.04
.366	.26	.67	.60	.95	.75	0.35	.92	.73	.57
.405	.51	.90	.78	.97	.86	.77	.98	.86	.80
.436	.70	.94	.84	.96	.85	.87	.98	.89	.84
.480	.79	.96	.88	.93	.48	.87	.98	.90	.86
.509	.73	.96	.88	.95	.12	.85	.96	.90	.86
.546	.50	.95	.87	.99	.02	.77	.90	.90	.84
.578	.26	.93	.86	.70	.01	.64	.75	.89	.81
.644	.03	.86	.74	1.00	....	.35	.46	.80	.68
.700	....	.74	.63	0.99	.04	.21	.30	.65	.54
.775	....	.56	.42	.90	.08	.14	.24	.47	.36
.85	.01	.46	.31	.92	.08	.14	.27	.36	.25
.95	.02	.38	.25	.98	.12	.19	.35	.28	.20
1.05	.04	.34	.24	.99	.18	.24	.45	.24	.17
1.15	.08	.33	.26	.99	.18	.30	.55	.24	.17
1.30	.15	.36	.31	.98	.16	.43	.69	.30	.21
1.45	.24	.42	.39	.97	.19	.52	.78	.41	.28
1.60	.35	.49	.47	.96	.22	.61	.84	.45	.38
1.80	.48	.56	.53	.97	.27	.73	.90	.49	.44
2.00	.58	.59	.55	.97	.53	.81	.93	.54	.44
2.40	.74	.64	.58	.93	.79	.88	.94	.61	.55
3.00	.56	.50	.46	.54	.55	.59	.63	.51	.44

* Data furnished by courtesy of the Fish-Schurman Corp., New York, Importers of Jena Glasses. All values are corrected for reflection losses.

† Discontinued.

TRANSMISSION OF COLORED GLASSES (Continued)

SECTION II.—JENA GLASSES (Continued)

Wave-length μ	BG 17 col. abs. heat 1 mm	VG 2* yellow-green 1 mm	VG 3 green (Nd) 1 mm	GG 1 col. abs. u.v. 1 mm	GG 2 col. abs. u.v. 1 mm	GG 3 light yellow 1 mm	GG 4 light green 1 mm	GG 5 bright yellow 1 mm	GG 6 medium yellow 1 mm
.281	....	....	....	0.02	....	0.03	....	0.01	0.02
.302	0.03	....	....	.13	....	.05	....	.02	.05
.312	.11	....	....	.47	....	.09	0.03	.03	.11
.334	.46	....	0.01	.86	0.72	.16	.01	.09	.14
.366	.89	....	.49	....	....	....	....	....	....
.405	.97	....	.27	.98	.98	.21	.40	.14	.21
.436	.98	0.05	.06	.99	.99	.85	.67	.40	.36
.480	.98	.37	.02	1.00	1.00	.99	.92	.99	.73
.509	.98	.59	.38	1.00	1.00	1.00	.95	1.00	.98
.546	.98	.61	.06	1.00	1.00	1.00	.97	1.00	1.00
.578	.98	.44	.69	1.00	1.00	1.00	.96	1.00	1.00
.644	.97	.10	....	1.00	1.00	1.00	.94	1.00	1.00
.700	.93	.08	.85	1.00	1.00	1.00	.96	1.00	0.99
.775	.78	.07	.59	1.00	1.00	0.99	.99	0.99	.98
.85	.61	.06	.32	1.00	1.00	.98	.99	.99	.97
.95	.42	.09	.36	1.00	1.00	.98	.99	.98	.96
1.05	.32	.13	.22	1.00	1.00	.97	.99	.98	.95
1.15	.30	.18	.20	1.00	1.00	.97	.99	.98	.95
1.30	.33	.27	.39	1.00	1.00	.97	.99	.97	.95
1.45	.36	.37	.34	1.00	1.00	.98	.99	.97	.96
1.50	.43	.47	.22	1.00	1.00	.98	.99	.98	.96
1.80	.46	.57	.38	1.00	1.00	.98	.99	.98	.97
2.00	.42	.65	.47	1.00	0.99	.98	.99	.98	.97
2.40	.39	.75	.30	0.96	.98	.96	.98	.97	.94
3.00	.27	.54	.12	.50	.70	.62	.64	.62	.62

Wave-length μ	GG 7 medium yellow 1 mm	GG 8 greenish-yellow 1 mm	GG 9 greenish-yellow 1 mm	GG 10 dk. grn.-yellow 1 mm	GG 11 deep yellow 1 mm	GG 12 yellow, grn. fl. 1 mm	OG 1 yellow-orange 1 mm	OG 2 orange 1 mm	OG 3 red-orange 1 mm
.281	....	....	....	....	....	....	....	....	....
.302	....	....	0.01	....	....	....	....	....	....
.312	0.01	....	.01	....	....	....	....	....	....
.334	.04	....	....	....	....	0.03	....	....	....
.366	.05	....	....	....	....	.74	....	....	....
.405	.12	0.05	.01	....	....	.53	....	....	....
.436	.16	.26	.14	0.09	0.01	.71	....	....	....
.480	.65	.75	.78	.59	.24	.90	0.01	....	....
.509	.99	.88	.88	.85	.97	.96	....	....	....
.546	.99	.99	.93	.97	.99	.99	.91	0.14	....
.578	1.00	.99	.92	.95	.99	1.00	.99	.94	0.48
.644	1.00	.92	.89	.83	.99	1.00	.99	.99	1.00
.700	1.00	.92	.91	.86	.99	1.00	.99	.99	1.00
.775	0.99	.98	.95	.96	.98	1.00	.99	.99	0.99
.85	.99	.98	.98	.99	.97	1.00	.99	.99	.99
.95	.98	.99	.99	.99	.96	1.00	.99	.99	.98
1.05	.98	1.00	.99	.99	.96	1.00	.99	.99	.98
1.15	.97	1.00	.99	1.00	.96	1.00	.99	.99	.98
1.30	.96	1.00	.99	1.00	.96	1.00	.99	.99	.98
1.45	.96	1.00	.99	0.99	.96	1.00	.99	.99	.98
1.60	.97	1.00	.99	.99	.96	0.99	.99	.99	.98
1.80	.98	.99	.99	.99	.97	.99	.98	.99	.99
2.00	.98	.99	.99	.99	.97	.99	.98	.99	.99
2.40	.95	.96	.97	.94	.95	.98	.97	.97	.97
3.00	.65	.68	.69	.44	.66	.67	.62	.60	.63

* Discontinued.

d)

d)

G 1 low- angle mm	OG 2 orange 1 mm	OG 3 red- orange 1 mm
. . . .		
. . . .		
. . . .		
. . . .		
. . . .		
0.01	.	.
.91	0.14	
.99	.94	0.48
.99	.99	1.00
.99	.99	1.00
.99	.99	0.99
.99	.99	.99
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.99	.99	.98
.97	.97	.97
.62	.60	.63

Wave-length μ	NG 1 v. dk. neut. 0.1 mm	NG 2 med. dk. neut. 0.1 mm	NG 3 dk. neut. 1 mm	NG 4 med. neut. 1 mm	NG 5 neut. 1 mm	NG 6 light neut. 1 mm	NG 7 blue-gray 1 mm
.281	....	0.05	....	....	....	....	....
.302	....	.30	....	....	....	....	....
.312	....	.36	....	....	0.02	0.07	0.01
.334	....	.46	....	0.07	.22	.63	.17
.366	0.21	.47	0.02	....	....	....	....
.405	.29	.45	.08	.18	.37	.89	.37
.436	.32	.46	.12	.23	.43	.92	.44
.480	.36	.50	.15	.29	.46	.89	.34
.509	.36	.52	.17	.30	.46	.89	.29
.546	.36	.56	.17	.31	.46	.89	.33
.578	.36	.58	.17	.31	.46	.89	.26
.644	.37	.62	.17	.30	.46	.87	.19
.700	.45	.77	.16	.28	.43	.86	.34
.775	.50	.80	.12	.21	.34	.85	.29
.85	.49	.80	.08	.17	.27	.86	.24
.95	.48	.81	.07	.14	.21	.87	.21
1.05	.50	.85	.07	.14	.19	.89	.21
1.15	.54	.85	.06	.16	.19	.91	.21
1.30	.59	.86	.09	.21	.22	.93	.21
1.45	.63	.88	.15	.26	.26	.95	.22
1.60	.67	.89	.20	.30	.31	.96	.26
1.80	.71	.90	.22	.34	.38	.96	.34
2.00	.73	.90	.26	.37	.43	.97	.40
2.40	.78	.93	.34	.39	.48	.96	.44
3.00	.72	.87	.20	.19	.21	.72	.25

TRANSMISSION OF COLORED GLASSES (Continued)

SECTION II.—JENA GLASSES (Continued)

BG 23 blue 1 mm	Wavelength μ	GG 14 dark yellow 1 mm	GG 15 bright yellow 1 mm	OG 4 orange yellow 1 mm	OG 5 orange red 1 mm	RG 9 infra-red 1 mm	RG 10 infra-red 1 mm	NG 8 neutral 1 mm	NG 9 neutral 1 mm
....	.281	....	0.01	....	....	....	....	....	....
0.01	.302	....	.05	....	....	....	....	....	....
.33	.312	....	.08	....	....	....	....	0.17	....
.81	.334	....	.15	....	....	....	....	.65	....
	.366	....	.26	....	....	....	....		
.93	.405	....	.46	....	....	....	....	.78	0.02
.94	.436	....	.94	....	....	....	....	.80	.04
.94	.480	....	.99	0.02	....	....	....	.83	.04
.91	.509	0.95	.99	.64	....	....	....	.84	.04
.76	.546	.99	.99	.97	0.92	....	....	.87	.04
.50	.578	.99	.99	.99	.99	....	....	.86	.04
.19	.644	.99	.99	.99	.99	0.09	0.09	.83	.04
.10	.700	.99	.99	.99	.99	0.23	.20	.82	.08
.05	.775	.99	.99	.99	.99	.94	.75	.79	.09
.06	.85	.99	.99	.99	.99	.95	.92	.73	.06
.10	.95	.99	.99	.99	.99	.83	.94	.67	.04
.17	1.05	.99	.99	.99	.99	.65	.96	.65	.03
.26	1.15	.99	.99	.99	.99	.42	.98	.65	.04
.40	1.30	.99	.99	.99	.99	.25	.99	.69	.07
.53	1.45	.99	.99	.99	.99	.22	.99	.76	.12
.65	1.60	.99	.99	.99	.99	.23	.99	.79	.16
.77	1.80	.99	.99	.99	.99	.28	.99	.80	.18
.84	2.00	.99	.99	.99	.99	.37	.99	.81	.20
.92	2.40	.98	.97	.99	.98	.61	.99	.84	.30
.72	3.00	.68	.74	.72	.65	.45	.69	.63	.13

GG 13 neutral abs. u. v. 1 mm	Wave- length μ	WG 1 neutral 1 mm	WG 2 neutral 1 mm	WG 3 neutral 1 mm	WG 4 neutral 1 mm	WG 5 neutral 1 mm	WG 6 neutral 1 mm	WG 7 neutral 1 mm	WG 8 neutral 1 mm
....									
....	.281	....	....	....	....	.23	.25	.60	.96
....	.302	....	....	....	....	.68	.73	.89	.98
.020	.312	....	....	....	.24	.87	.94	.99	.99
	.334	....	.03	.60	.88	.96	.97	.99	1.00
	.366	.046	.86	.97	.99	1.00	1.00	1.00	1.00
.92	.405	.98	.99	1.00	1.00	1.00	1.00	1.00	1.00
.98	.426	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.480	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.509	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.546	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.578	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.644	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	.700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.775	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	1.15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.99	1.45	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.99
.99	1.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.98
.99	1.80	1.00	1.00	1.00	1.00	1.00	1.00	.99	.96
.98	2.00	1.00	1.00	1.00	.99	.99	.99	.99	.92
.68	2.40	1.00	.99	1.00	.98	.98	.97	.97	.79
	3.00	.84	.81	.82	.79	.77	.57	.66	.51

TRANSMISSION OF COLORED GLASSES (Continued)

SECTION II.—JENA GLASSES (Continued)

Wave-length μ	UG 5 dk. viol. tr. u. v. 1 mm	UG 6 tr. infra-red 1 mm	UG 7 tr. infra-red 1 mm	BG 18 blue- green 1 mm	BG 19 nearly neutral 1 mm	BG 20 didymium 1 mm	BG 21 neutral 1 mm	BG 22 light blue-green 1 mm	BG 23 blue 1 mm
.281	0.93	....	....	....	0.04	....	0.01	....	....
.302	.98	....	....	....	.38	0.04	.26	....	....
.312	.99	....	....	....	.60	.09	.46	0.03	0.01
.334	.98	....	....	0.03	.87	.41	.75	.42	.33
.366	.91	....	....	.21	.95	.91	.93	.83	.81
.405	.39	....	....	.50	.96	.95	.97	.92	.93
.436	.11	....	....	.70	.97	.89	.98	.94	.94
.480	.03	....	....	.87	.96	.82	.99	.94	.94
.509	.01	....	....	.90	.95	.81	.99	.94	.91
.546	....	....	....	.87	.94	.99	.99	.94	.76
.578	....	....	....	.68	.92	.33	.98	.93	.50
.644	.01	....	0.01	.25	.83	.99	.93	.83	.19
.700	.72	....	.05	.12	.67	.99	.85	.73	.10
.775	.57	....	.25	.08	.43	.98	.65	.58	.05
.85	.50	0.10	.54	.07	.21	.98	.48	.49	.06
.95	.51	.50	.80	.09	.08	.99	.29	.44	.10
1.05	.53	.77	.91	.13	.04	.99	.19	.44	.17
1.15	.46	.89	.95	.20	.02	.99	.16	.45	.26
1.30	.30	.96	.98	.32	.02	.98	.15	.51	.40
1.45	.25	.98	.99	.45	.04	.89	.18	.59	.53
1.60	.27	.99	.99	.59	.06	.90	.23	.66	.65
1.80	.31	.99	.99	.72	.09	.94	.29	.71	.77
2.00	.36	.99	.99	.80	.10	.91	.30	.71	.84
2.40	.34	.99	.99	.80	.09	.90	.29	.75	.92
3.00	.08	.70	.65	.32	.05	.82	.12	.43	.72

Wave-length μ	BG 24 magenta 1 mm	VG 4 greenish yellow 1 mm	VG 5 bright greenish yellow 1 mm	VG 6 bright blue-green 1 mm	VG 7 greenish yellow 1 mm	VG 8 darker blue-green 1 mm	VG 9 yellow green 1 mm	GG 13 neutral abs. u. v. 1 mm
.281	0.92	....	....	....	....	....	....	....
.302	.96	....	....	....	....	....	....	....
.312	.97	....	....	....	....	....	....	....
.334	.99	....	....	....	....	....	....	0.20
.366	.99	....	....	....	....	....	....	....
.405	.97	....	....	0.07	0.02	0.03	....	.92
.436	.89	0.06	0.03	.32	.15	.16	0.03	.98
.480	.35	.39	.55	.69	.50	.55	.47	.99
.509	.19	.69	.83	.80	.75	.73	.69	.99
.546	.11	.85	.87	.77	.84	.71	.64	.99
.578	.04	.77	.79	.60	.78	.48	.44	.99
.644	.24	.47	.50	.23	.58	.13	.10	.99
.700	.91	.48	.46	.17	.61	.08	.07	.99
.775	.95	.55	.48	.15	.67	.08	.06	.99
.85	.92	.59	.52	.15	.70	.09	.06	.99
.95	.88	.63	.59	.21	.75	.14	.09	.99
1.05	.84	.67	.66	.30	.79	.21	.16	.99
1.15	.81	.71	.72	.39	.83	.31	.25	.99
1.30	.75	.78	.80	.54	.87	.45	.39	.99
1.45	.73	.83	.87	.65	.90	.57	.54	.99
1.60	.72	.87	.91	.74	.92	.65	.65	.99
1.80	.71	.91	.94	.83	.94	.75	.76	.99
2.00	.70	.94	.95	.87	.95	.82	.82	.99
2.40	.58	.96	.96	.91	.95	.92	.90	.98
3.00	.21	.85	.79	.66	.63	.75	.65	.68