FINISHED ORGANIC LENSES TECHNICAL DATA

FSV ORGANIC CLEAR

INDEX 1.6 PREMIUM

BLUE CUT HIGH TECH 50

FSV ORGANIC CLEAR

INDEX 1.6 PREMIUM

BLUE CUT HIGH TECH 50

GENERAL PRODUCT CHARACTERISTICS	
INDEX	1,6
MATERIAL	MR-8
DESIGN	spheric
ABBE	42
DENSITY (gr/cm^3)	1,3
COATING	Blue Cut High Tech 50
UV CUT (nm)	420
FILTER UV CATEGORY	0
DAY DRIVE	yes
NIGHT DRIVE	yes
TINTABLE	no
BAYER TEST	13,5

LTL FAMILY
UV6

Lenses Dimensions

SPH	Ø 65 mm			
	C.T.	E.T.	BASE CURVE	
			N_e=1.60	
			F.C.	B.C.
0,25	1,80	1,50	2,05	1,80
0,50	2,00	1,50	2,30	1,80
0,75	2,20	1,50	2,55	1,80
1,00	2,40	1,50	2,80	1,80
1,25	2,30	1,10	3,05	1,80
1,50	2,50	1,10	3,30	1,80
1,75	2,70	1,10	3,55	1,80
2,00	3,00	1,10	3,80	1,80
2,25	3,20	1,10	3,15	0,90
2,50	3,40	1,10	3,40	0,90
2,75	3,60	1,10	3,65	0,90
3,00	3,80	1,10	3,90	0,90
3,25	4,00	1,10	4,15	0,90
3,50	4,30	1,10	4,40	0,90
3,75	4,50	1,10	4,65	0,90
4,00	4,70	1,10	4,90	0,90
4,25	4,90	1,10	5,15	0,90
4,50	5,10	1,10	5,40	0,90
4,75	5,40	1,10	5,65	0,90
5,00	5,60	1,10	5,90	0,90
5,25	5,80	1,10	6,15	0,90
5,50	6,00	1,10	6,40	0,90
5,75	6,20	1,10	6,65	0,90
6,00	6,40	1,10	6,90	0,90

SPH	Ø 70 mm			
	C.T.	E.T.	BASE CURVE	
			N_e=1.60	
			F.C.	B.C.
0,00	2,20	1,90	4,75	4,50
0,25	1,90	1,40	5,00	4,50
0,50	2,00	1,20	5,25	4,50
0,75	2,10	1,10	5,50	4,50
1,00	2,40	1,10	5,75	4,50
1,25	2,70	1,10	6,00	4,50
1,50	2,90	1,10	6,25	4,50
1,75	3,20	1,10	6,50	4,50

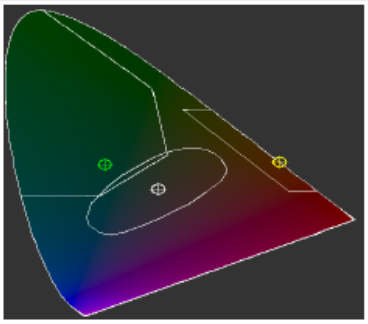
SPH	Ø 70 & 75 mm			
	C.T.	E.T.	BASE CURVE	
			N_e=1.60	
			F.C.	B.C.
0,00	1,90	1,90	4,50	4,50
0,25	1,80	2,20	4,25	4,50
0,50	1,70	2,40	4,00	4,50
0,75	1,70	2,70	3,75	4,50
1,00	1,60	2,90	3,50	4,50
1,25	1,50	3,30	3,75	5,00
1,50	1,40	3,50	3,50	5,00
1,75	1,15	3,60	3,25	5,00
2,00	1,15	3,90	3,00	5,00
2,25	1,15	3,80	3,25	5,50
2,50	1,15	4,10	3,00	5,50
2,75	1,15	4,40	2,75	5,50
3,00	1,15	4,70	2,50	5,50
3,25	1,15	5,00	2,75	6,00
3,50	1,15	5,30	2,50	6,00
3,75	1,15	5,60	2,25	6,00
4,00	1,15	6,10	2,00	6,00
4,25	1,15	6,20	2,50	6,75
4,50	1,15	6,60	2,25	6,75
4,75	1,15	6,90	2,00	6,75
5,00	1,15	7,30	1,75	6,75
5,25	1,15	7,60	2,00	7,25
5,50	1,15	7,90	1,75	7,25
5,75	1,15	8,20	1,50	7,25
6,00	1,15	8,50	1,25	7,25
6,25	1,15	8,00	2,15	8,40
6,50	1,15	8,30	1,90	8,40
6,75	1,15	8,50	1,65	8,40
7,00	1,15	8,70	1,40	8,40
7,25	1,15	9,10	1,15	8,40
7,50	1,15	9,30	0,90	8,40
7,75	1,15	9,90	1,90	9,65
8,00	1,15	10,10	1,65	9,65
8,25	1,15	10,40	1,40	9,65
8,50	1,15	10,60	1,15	9,65
8,75	1,15	11,00	0,90	9,65
9,00	1,15	11,20	0,65	9,65
9,25	1,15	11,50	1,50	10,75
9,50	1,15	11,90	1,25	10,75
9,75	1,15	12,20	1,00	10,75
10,00	1,15	12,50	0,75	10,75

Lab Test

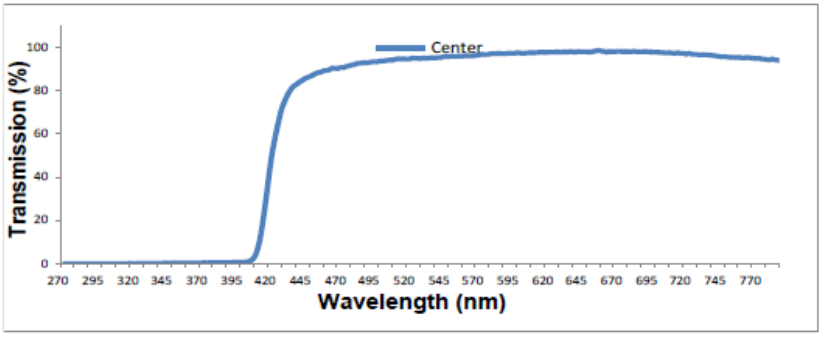
American National Standard ANSI Z80.3-2018					International Standard ISO 12312-1:2013/Amd.1:2015					Australian/New Zealand Standard AS/NZS 1067.1:2016				
Luminous Transmittance	95.85	%			Luminous Transmittance (Tv)	95.85	%			Luminous Transmittance (Tv)	95.85	%		
					Filter Category	0				Filter Category	0			
Primary Function	Cosmetic lens or shield, light				Descriptive Label	Light tint sunglasses				Descriptive Label	Light tint sunglasses			
Warnings					Warnings					Warnings				
VISIBLE SPECTRAL RANGE					**VISIBLE SPECTRAL RANGE**					**VISIBLE SPECTRAL RANGE**				
Traffic signal transmittance					Dection of signal light: **INCANDESCENT LIGHT**					Dection of signal light: **INCANDESCENT LIGHT**				
Red	98.05	%	Min>	8.00 PASS	QRed	1.02		Min>	0.80 PASS	QRed	1.02		Min>	0.80 PASS
Yellow	97.07	%	Min>	6.00 PASS	QYellow	1.01		Min>	0.60 PASS	QYellow	1.01		Min>	0.60 PASS
Green	95.22	%	Min>	6.00 PASS	QGreen	1.00		Min>	0.60 PASS	QGreen	1.00		Min>	0.60 PASS
					QBlue	0.97		Min>	0.60 PASS	QBlue	0.97		Min>	0.70 PASS
Spectral transm (475-650)	0.95	(Tv)	Min>	0.20 PASS	Spectral transm (475-650)	91.25	%	Min>	19.17 PASS	Spectral transm (475-650)	91.25	%	Min>	19.17 PASS
UV SPECTRAL RANGE					**UV SPECTRAL RANGE**					**UV SPECTRAL RANGE**				
Mean EUV (280-315)	0.00	%	Max<	11.98 PASS	Tsuva (315-380)	0.18	%	Max<	95.85 PASS	Tsuva (315-400)	0.22	%	Max<	95.85 PASS
Mean NUV (315-380)	0.21	%	Max<	95.85 PASS	Tsuvb (280-315)	0.00	%	Max<	4.79 PASS	Tsuvb (280-315)	0.00	%	Max<	4.79 PASS
BlueLight Tsb (380-500)	77.06	%			Tsuv (280-380)	0.11	%			Tsuv (280-400)	0.14	%		
					Tsb (380-500)	77.05	%			Tsb (380-500)	77.05	%		
COLOR LIMITS	**X**	**Y**												
Green	0.213	0.416		PASS										
Yellow	0.577	0.422		PASS										
D65	0.325	0.348		PASS										

See color Limit of acceptance on a CIE (1931) chromatic diagram

Color Limit Region of Acceptance



Spectral Transmittance



Additional required information
This is not suitable for:
- direct viewing of the sun
- for use in twilight or at night
- protection agaist sources of radiation other than natural sunlight

Lab Test

Transmittance values:

L	Center
270	0
275	0.01
280	0
285	0
290	0
295	0
300	0
305	0
310	0
315	0
320	0.05
325	0.04
330	0.1
335	0.17
340	0.15
345	0.24
350	0.25
355	0.29
360	0.35
365	0.3
370	0.29
375	0.35
380	0.42
385	0.5
390	0.56
395	0.65

Spectral Transmittance

L	Center
400	0.67
405	1.12
410	4.87
415	20.34
420	44.8
425	62.62
430	74.38
435	80.72
440	83.56
445	85.66
450	87.1
455	88.49
460	89.72
465	90.56
470	90.5
475	91.25
480	92.14
485	92.76
490	92.99
495	93.51
500	93.79
505	94.22
510	94.44
515	94.77
520	94.76
525	95.08

L	Center
530	95.11
535	95.15
540	95.27
545	95.77
550	95.82
555	95.99
560	96.05
565	96.13
570	96.43
575	96.82
580	97.18
585	97.39
590	97.35
595	97.36
600	97.68
605	97.53
610	97.68
615	97.88
620	97.81
625	97.92
630	97.96
635	97.92
640	98.05
645	98.12
650	98.01
655	98.43

L	Center
660	98.43
665	98.21
670	98.16
675	98.15
680	98.17
685	98.15
690	98.2
695	98.02
700	97.83
705	97.65
710	97.53
715	97.65
720	97.23
725	97
730	96.76
735	96.71
740	96.4
745	95.94
750	95.78
755	95.61
760	95.49
765	95.54
770	95
775	94.83
780	94.49
785	94.38

Ranges