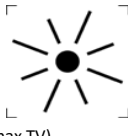
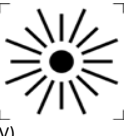


OPTICAL GLASS LENS		H2F Photochromic glass lenses		15	CUSTOMER		BARBERINI SPA
XDF DARK GREY - H2F Green B 15					TECHNICAL DATA SHEET N.		HF218
Base:	6	Coating:	H2F Green B 15	GLASS CODE:		92HV06c0	
Thickness:	1.9 mm	Polarization Ratio:	0,00%	DATE:		24/03/2015	
Hardening:	Chemically	Degree of Polarization:	0,00	Photochromic Ratio:		PASS	3,40% (min 1.25)
Optical Centre:	Centre	Reflection factor:		Photochromic Interval:		0,70	

This sunglare filter is conform to the following International Norm:

		Light				Dark			
		Filter Category: 2		Medium tint		Filter Category: 3		Dark tint	
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>39,96%</b>				<b>11,74%</b>			
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>14,91%</b>				<b>4,87%</b>			
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>77,29%</b> (max TV)		<b>NO IR PROTECTION</b>		<b>(max TV)</b>			
<b>TSUV</b>	(mean 280 ÷ 380 nm)	<b>1,84%</b>				<b>0,54%</b>			
<b>TSUVA</b>	(mean 315 ÷ 380 nm)	<b>2,86%</b> (max 0,5 TV)		<b>19,98%</b> <b>PASS</b>		<b>0,83%</b> (max 0,5 Tv)		<b>5,87%</b> <b>PASS</b>	
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b> (max 0,05 TV)		<b>1,99%</b> <b>PASS</b>		<b>0,00%</b> (max 0,05 TV)		<b>0,58%</b> <b>PASS</b>	
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>24,10%</b> (min 0,2 Tv)		<b>7,99%</b> <b>PASS</b>		<b>6,78%</b> (min 0,2 Tv)		<b>2,34%</b> <b>PASS</b>	
	<b>Qgreen</b>	<b>1,00</b> (min. = 0,60)		<b>PASS</b>		<b>0,98</b> (min. = 0,60)		<b>PASS</b>	
	<b>Qyellow</b>	<b>1,05</b> (min. = 0,60)		<b>PASS</b>		<b>1,09</b> (min. = 0,60)		<b>PASS</b>	
	<b>Qred</b>	<b>1,07</b> (min. = 0,80)		<b>PASS</b>		<b>1,21</b> (min. = 0,80)		<b>PASS</b>	
	<b>Qblue</b>	<b>0,81</b> (min. = 0,60)		<b>PASS</b>		<b>0,81</b> (min. = 0,60)		<b>PASS</b>	

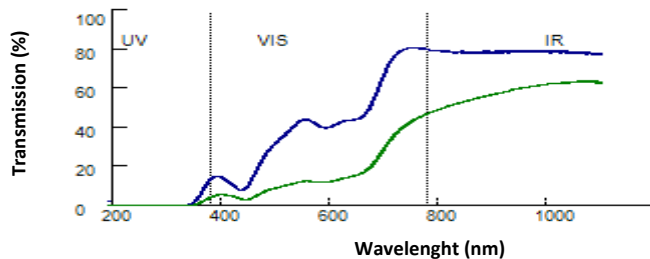
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

**American Norm: ANSI Z80.3-2010**

		Primary function and shade general purpose			
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>39,94%</b> ( $8 \leq Tv < 40$ )		<b>PASS</b> Medium to dark	
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>14,91%</b>			
<b>TSUVB</b>	(mean 280 ÷ 315 nm)			<i>Color limits:</i>	
	normal use	<b>0,00%</b> ( $\leq 1/8Tv$ )		<b>4,99%</b> <b>PASS</b> Chromaticity (D65)	
	high and prolonged exposure	<b>0,00%</b> (max 1%)		<b>0,39%</b> <b>PASS</b> Yellow traffic signals <b>x=0,5773 y=0,4214</b> <b>PASS</b>	
<b>TSUVA</b>	(mean 315 ÷ 380 nm)			Green traffic signals <b>x=0,2377 y=0,5176</b> <b>PASS</b>	
	normal use	<b>4,11%</b> (max Tv)		<b>39,94%</b> <b>PASS</b> <i>Traffic signal transmittance:</i>	
	high and prolonged exposure	<b>4,11%</b> (max 0.5 TV)		<b>19,97%</b> <b>PASS</b> Red signal <b>44,88%</b> ( $\geq 8\%$ ) <b>PASS</b>	
<b>TSIR</b>	(mean 780 ÷ 1400 nm)	<b>77,93%</b> No requirement		<b>Yellow signal</b> <b>42,37%</b> ( $\geq 6\%$ ) <b>PASS</b>	
<b>TVIS</b>	(peak min 475 ÷ 650 nm)	<b>24,10%</b> (min 0,2 TV)		<b>7,99%</b> <b>PASS</b> Green signal <b>39,07%</b> ( $\geq 6\%$ ) <b>PASS</b>	

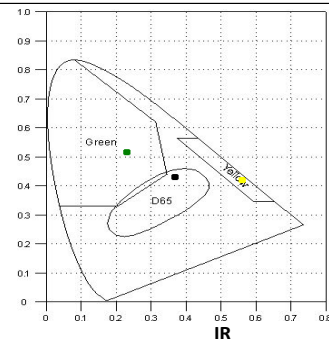
**Australian Norm: AS/NZS 1067:2009**

		Filter Category: 2			
<b>TV</b>	(mean 380 ÷ 780 nm)	<b>39,96%</b>		Medium sunglare reduction	
<b>TSB</b>	(mean 380 ÷ 500 nm)	<b>14,91%</b>		Not Suitable for driving at night	
<b>TSIR</b>	(mean 780 ÷ 2000 nm)	<b>77,29%</b>			
<b>TSUV</b>	(mean 280 ÷ 400 nm)	<b>2,77%</b>			
<b>TSUVA</b>	(mean 315 ÷ 400 nm)	<b>4,13%</b> (max Tv)		<b>39,96%</b> <b>PASS</b> <b>Qgreen</b> <b>0,98</b> (min. = 0,60) <b>PASS</b>	
<b>TSUVB</b>	(mean 280 ÷ 315 nm)	<b>0,00%</b> (max Tv)		<b>1,99%</b> <b>PASS</b> <b>Qyellow</b> <b>1,05</b> (min. = 0,80) <b>PASS</b>	
<b>TSUVB1</b>	(peak max 315 ÷ 350 nm)	<b>2,29%</b> (max 0,5 Tv)		<b>19,98%</b> <b>PASS</b> <b>Qred</b> <b>1,07</b> (min. = 0,80) <b>PASS</b>	
<b>TVIS</b>	(peak min 450 ÷ 650 nm)	<b>11,18%</b> (min 0,2 TV)		<b>7,99%</b> <b>PASS</b> <b>Qblue</b> <b>0,90</b> (min. = 0,70) <b>PASS</b>	



D65 : **x=0,3786**  
**y=0,4322**

C : **x=0,3793**  
**y=0,4236**



**Spectral Data:**

UV				VIS								IR			
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	15,09	490	29,54	590	39,86	690	61,35	800	79,39	1300	74,36
210	0,00	310	0,00	400	14,24	500	32,31	600	40,38	700	67,90	850	78,55	1400	74,10
220	0,01	320	0,01	410	12,58	510	34,79	610	41,62	710	73,31	900	78,90	1500	73,57
230	0,00	330	0,04	420	10,42	520	37,42	620	42,82	720	77,13	950	79,11	1600	73,81
240	0,01	340	0,50	430	8,39	530	40,14	630	43,63	730	79,24	1000	78,72	1700	74,15
250	0,00	350	2,29	440	8,23	540	42,54	640	44,03	740	80,48	1050	78,40	1800	74,16
260	0,00	360	5,90	450	11,18	550	43,97	650	44,46	750	80,92	1100	77,84	1900	77,22
270	0,00	370	10,46	460	16,38	560	43,83	660	45,88	760	80,84	1150	76,29	2000	76,59
280	0,01	380	14,01	470	21,75	570	42,42	670	49,24	770	80,61	1200	75,24		
290	0,01			480	26,14	580	40,67	680	54,62	780	80,18				

Data subject to change without notice

*De Luca Alfonso*

Responsible Alfonso De Luca