


OPTICAL GLASS LENS		Standard glass lenses		56	CUSTOMER	BARBERINI SPA
Fumo d/uv + ACE - SAR cc					TECHNICAL DATA SHEET N.	NO3420
Base:	6	Coating:	SAR cc		GLASS CODE:	ZB1A0RX0
Thickness:	2.0 mm	Polarization Ratio:	0,00%	(min 8:1)	DATE:	07/06/2016
Hardening:	Chemically	Degree of Polarization:	0,00		Photochromic Ratio:	0,00%
Optical Centre:	Centre	Reflection factor:	PASS 0,53%	(max 2.5%)	Photochromic Interval:	0,00

This sunglare filter is conform to the following International Norm:

**European Norm: ISO 12312-1 2013**

	Filter Category: <b>2</b>		Medium tint	
<b>TV</b> (mean 380 ÷ 780 nm)	<b>31,57%</b>			
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,90%</b>			
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>27,63%</b> (max TV)		<b>IR PROTECTION</b>	
<b>TSUV</b> (mean 280 ÷ 380 nm)	<b>0,00%</b>			
<b>TSUVA</b> (mean 315 ÷ 380 nm)	<b>0,00%</b> (max 0,5 TV)	15,78%	<b>PASS</b>	
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max 0,05 TV)	1,57%	<b>PASS</b>	
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>16,94%</b> (min 0,2 Tv)	6,31%	<b>PASS</b>	
<b>Qgreen</b>	<b>1,02</b> (min. = 0,60)		<b>PASS</b>	
<b>Qyellow</b>	<b>0,97</b> (min. = 0,60)		<b>PASS</b>	
<b>Qred</b>	<b>0,99</b> (min. = 0,80)		<b>PASS</b>	
<b>Qblue</b>	<b>1,04</b> (min. = 0,60)		<b>PASS</b>	

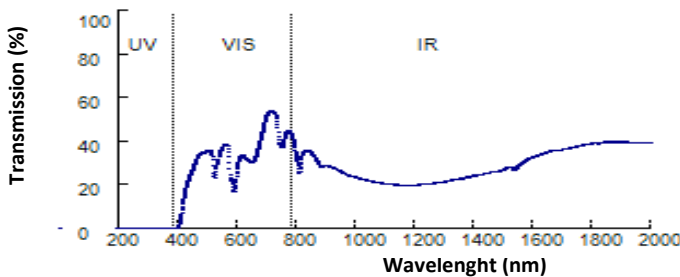
Suitable for driving and road use - Not suitable for driving at night or under condition of dull light

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

				Primary function and shade general purpose
<b>TV</b> (mean 380 ÷ 780 nm)	<b>31,59%</b> (8<=Tv<40)		<b>PASS</b>	Medium to dark
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,90%</b>			
<b>TSUVB</b> (mean 280 ÷ 315 nm)				<i>Color limits:</i>
normal use	<b>0,00%</b> (<=1/8Tv)	3,94%	<b>PASS</b>	Chromaticity (D65)
high and prolonged exposure	<b>0,00%</b> (max 1%)	0,31%	<b>PASS</b>	Yellow traffic signals <b>x=0,5730 y=0,4255</b> <b>PASS</b>
<b>TSUVA</b> (mean 315 ÷ 380 nm)				Green traffic signals <b>x=0,2041 y=0,4129</b> <b>PASS</b>
normal use	<b>0,00%</b> (max Tv)	31,59%	<b>PASS</b>	<i>Traffic signal transmittance:</i>
high and prolonged exposure	<b>0,00%</b> (max 0.5 TV)	15,79%	<b>PASS</b>	Red signal <b>32,91%</b> (>= 8%) <b>PASS</b>
<b>TSIR</b> (mean 780 ÷ 1400 nm)	<b>26,70%</b> No requirement			Yellow signal <b>30,75%</b> (>= 6%) <b>PASS</b>
<b>TVIS</b> (peak min 475 ÷ 650 nm)	<b>16,94%</b> (min 0,2 TV)	6,31%	<b>PASS</b>	Green signal <b>32,33%</b> (>= 6%) <b>PASS</b>

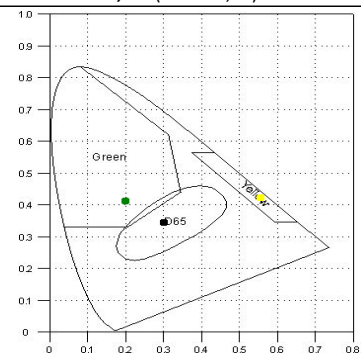
**Australian Norm: AS/NZS 1067:2009**

<b>TV</b> (mean 380 ÷ 780 nm)	<b>31,57%</b>			Filter Category: <b>2</b>
<b>TSB</b> (mean 380 ÷ 500 nm)	<b>26,90%</b>			Medium sunglare reduction
<b>TSIR</b> (mean 780 ÷ 2000 nm)	<b>27,63%</b>			Not Suitable for driving at night
<b>TSUV</b> (mean 280 ÷ 400 nm)	<b>0,01%</b>			
<b>TSUVA</b> (mean 315 ÷ 400 nm)	<b>0,02%</b> (max Tv)	31,57%	<b>PASS</b>	<b>Qgreen</b> <b>1,02</b> (min. = 0,60) <b>PASS</b>
<b>TSUVB</b> (mean 280 ÷ 315 nm)	<b>0,00%</b> (max Tv)	1,57%	<b>PASS</b>	<b>Qyellow</b> <b>0,96</b> (min. = 0,80) <b>PASS</b>
<b>TSUVB1</b> (peak max 315 ÷ 350 nm)	<b>0,00%</b> (max 0,5 Tv)	15,78%	<b>PASS</b>	<b>Qred</b> <b>0,99</b> (min. = 0,80) <b>PASS</b>
<b>TVIS</b> (peak min 450 ÷ 650 nm)	<b>20,12%</b> (min 0,2 TV)	6,31%	<b>PASS</b>	<b>Qblue</b> <b>1,04</b> (min. = 0,70) <b>PASS</b>



D65 : **x=0,3105**  
**y=0,3471**

C : **x=0,3083**  
**y=0,3350**



**Spectral Data:**

UV				VIS				IR					
nm	%	nm	%	nm	%	nm	%	nm	%	nm	%	nm	%
200	0,00	300	0,00	390	0,00	490	35,12	590	20,12	690	48,76	800	31,21
210	0,00	310	0,00	400	1,15	500	36,18	600	29,72	700	52,73	850	34,64
220	0,00	320	0,00	410	8,51	510	34,62	610	33,28	710	53,96	900	29,09
230	0,00	330	0,00	420	16,64	520	23,26	620	33,22	720	53,67	950	26,16
240	0,00	340	0,00	430	21,85	530	30,25	630	31,81	730	51,26	1000	23,54
250	0,00	350	0,00	440	25,18	540	35,84	640	31,05	740	38,74	1050	21,81
260	0,00	360	0,00	450	28,55	550	37,87	650	30,38	750	37,22	1100	20,63
270	0,00	370	0,00	460	32,07	560	39,01	660	33,10	760	43,27	1150	20,05
280	0,00	380	0,00	470	34,24	570	30,67	670	37,80	770	44,97	1200	20,13
290	0,00			480	35,11	580	22,04	680	43,11	780	43,60		

Data subject to change without notice

*De Luca Alfonso*  
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