

Test Report

No.: GZHL2101003336CE

Date: Mar 12, 2021

Page 1 of 17

HUBO SPORTS PRODUCTS CO., LIMITED
3/4F, NO.3, YONGFU ST, SANDONG RD, XINHUA STREET, HUADU DISTRICT, GUANGZHOU, GUANGDONG,
510800, P.R.CHINA

Sample Description : MOTORCYCLE GOGGLES
Item No. : HB-306
Style No. : HB-306
Manufacturer : HUBO SPORTS PRODUCTS CO., LIMITED
Supplier : HUBO SPORTS PRODUCTS CO., LIMITED
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jan 27, 2021
Sample Resubmission Date : Mar 05, 2021
Test Performing Date : Jan 27, 2021 to Mar 10, 2021
Test Performed : EN 1938- 2010,
Analysis of Azo Dye,
To Determine the pH Value,
Color Fastness to Perspiration
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Lell Wu
Authorized Signatory



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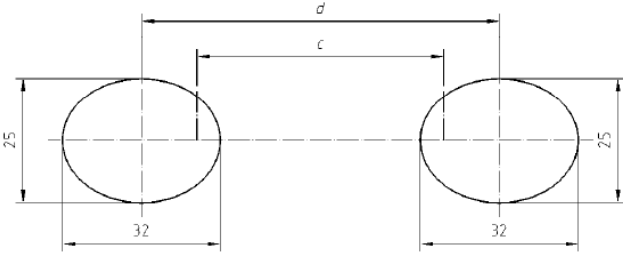
I. Test Conducted: Based on **EN 1938- 2010 Personal eye-protection —Goggles for motorcycle and moped users**

Number of Tested Sample: _21_ piece(s)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4	Requirements	
4.1	General All the samples tested shall comply with the requirements of this European Standard. Goggles can be provided with different oculars.	Pass
4.2	Design and manufacture Goggles shall be free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use. The verification of this requirement shall be made according to 5.11 and 5.12.	Pass
4.3	Materials Any materials (or combination of materials) may be used, provided they meet the requirements of this European Standard. No parts of the goggles which are in contact with the wearer shall be made of materials that are known to cause irritation, allergic or toxic reaction amongst a significant proportion of users. Examples for documents which can be presented as evidence of chemical innocuousness are given in the note below. <i>NOTE The following list of documents is given for information and as examples of documents that can be examined when checking on the innocuousness of materials: materials specifications; safety data sheets relating to the materials; information relating to the suitability of the materials for use with food, in medical devices, or other relevant applications; information relating to toxicological, allergenic, carcinogenic, toxic to reproduction or mutagenic investigations on the materials; information relating to ecotoxicological and other environmental investigations on the materials.</i> <i>The examination of documents or of the goggles shall determine whether the claim that the materials are suitable for use in the protective goggle is justified. Particular attention should be paid to the presence of plasticisers, unreacted components, heavy metals, impurities and the chemical identity of pigments and dyes</i> <i>All metallic materials which could come into prolonged contact with the skin (e.g. hinge, rim and bridge) shall be tested according to EN 1811 for nickel release. The release of nickel shall be less than 0,5 µg/cm2/wk.</i>	Pass
4.4	Sit and fit Goggles shall be so designed and manufactured that they will sit securely in position on the face when used as intended, and will adapt to the shape of the wearer's face by means of contact surfaces made of soft flexible material. The retaining strap shall be designed to be flexible or adjustable and sit securely when fitted according to the manufacturer's instructions. The retaining strap shall be capable of withstanding any stress which occurs during proper use without tearing or being permanently deformed. The verification of this requirement shall be made according to 5.12.	Pass
4.5	Ventilation Design measures shall exist ensuring that the inside of the goggles is ventilated during use. Such measures shall be outside the oculars' areas and shall not reduce the	Pass



Clause	Test Method/Requirement	Result
	<p>peripheral vision significantly. The verification of this requirement shall be made with a visual inspection according to 5.11.</p> <p>When goggle are provided with opening to allow circulation of air, the vented portion shall be such that openings shall exclude spherical objects 1,5 mm in diameter or larger.</p> <p><i>NOTE The necessary rate of air exchange and the design of the ventilation openings depend heavily on the weather, speed of driving and the individual conditions (e.g. sweating), which means that generally applicable requirements cannot be stipulated.</i></p>	
4.6	Optical requirements	
4.6.1	<p>Field of vision</p> <p>The size of the field of vision is defined in conjunction with the appropriate head-form described in Clause 17 of EN 168:2001.</p> <p>The goggles shall exhibit a minimum field of vision defined by the two ellipses in Figure 1 when placed and centred at a distance of 25 mm from the surface of the eyes of the appropriate head-form. The horizontal axis shall be parallel to and 0,7 mm below the height of the line connecting the centres of the two eyes. The plane of the ellipses shall be parallel to the back flat portion of the head-form.</p> <p>The horizontal length of the ellipses shall be 32,0 mm, the vertical width of the ellipses shall be 25,0 mm. The centre distance (<i>d</i>) of the two ellipses shall be $d = c + 20$ mm, where <i>c</i> is the pupillary distance. The papillary distance is 64 mm for the medium head-form and 54 mm for the small head-form, or it may be specified differently by the manufacturer.</p> <p>The test shall be carried out in accordance with 5.3.</p>  <p style="text-align: center;">Figure 1 — Definition of the field of vision</p>	Pass
4.6.2	Lens requirements	
4.6.2.1	<p>General</p> <p>The lens requirements shall be as given in Table 1. The requirements apply to goggles with all the oculars declared by the manufacturer.</p>	Pass See annex 1 See annex 2 See annex 4 See annex 5



Clause	Test Method/Requirement	Result																																																								
	<p style="text-align: center;">Table 1 — General requirements for lenses</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="261 461 571 546"></th> <th data-bbox="571 461 746 546">Spherical refractive power</th> <th data-bbox="746 461 900 546">Astigmatic refractive power</th> <th colspan="3" data-bbox="900 461 1131 546">Difference in prismatic refractive power cm/m</th> </tr> </thead> <tbody> <tr> <td data-bbox="261 546 571 736" rowspan="2">Permissible tolerances for refractive powers of mounted oculars</td> <td data-bbox="571 546 746 736" rowspan="2"> $\frac{D1+D2}{2}$ D, m^{-1} </td> <td data-bbox="746 546 900 736" rowspan="2"> $D1-D2$ D, m^{-1} </td> <td colspan="2" data-bbox="900 546 1054 631" style="text-align: center;">Horizontal $D\Delta$</td> <td data-bbox="1054 546 1131 631" rowspan="2" style="text-align: center;">Vertical $D\Delta$</td> </tr> <tr> <td data-bbox="900 631 975 736" style="text-align: center;">Base out</td> <td data-bbox="975 631 1054 736" style="text-align: center;">Base in</td> <td data-bbox="1054 631 1131 736"></td> </tr> <tr> <td data-bbox="261 736 571 801">Difference between the spherical powers of the left and right visual points</td> <td colspan="5" data-bbox="571 736 1131 801">Less than 0,18 D, m^{-1}</td> </tr> <tr> <td data-bbox="261 801 571 835">Luminous transmittance</td> <td colspan="5" data-bbox="571 801 1131 835">According to 4.6.2.2</td> </tr> <tr> <td data-bbox="261 835 571 869">Uniformity of luminous transmittance</td> <td colspan="5" data-bbox="571 835 1131 869">According to 4.1.3.1 of EN 1836:2005+A1:2007</td> </tr> <tr> <td data-bbox="261 869 571 934" rowspan="2">Maximum reduced luminance coefficient</td> <td colspan="5" data-bbox="571 869 1131 902">Single lens goggles: $\leq 1 \text{ cd/m}^2/\text{lx}$</td> </tr> <tr> <td colspan="5" data-bbox="571 902 1131 934">Multiple lens goggles: $\leq 2 \text{ cd/m}^2/\text{lx}$</td> </tr> <tr> <td data-bbox="261 934 571 967">Quality of material and surface</td> <td colspan="5" data-bbox="571 934 1131 967">According to 4.4 of EN 1836:2005+A1:2007</td> </tr> <tr> <td data-bbox="261 967 571 1014">Resistance to ultraviolet radiation</td> <td colspan="5" data-bbox="571 967 1131 1014">After the testing according to 5.7, the maximum reduced luminance coefficient shall not exceed the values shown in this table.</td> </tr> </tbody> </table>		Spherical refractive power	Astigmatic refractive power	Difference in prismatic refractive power cm/m			Permissible tolerances for refractive powers of mounted oculars	$\frac{D1+D2}{2}$ D, m^{-1}	$ D1-D2 $ D, m^{-1}	Horizontal $D\Delta$		Vertical $D\Delta$	Base out	Base in		Difference between the spherical powers of the left and right visual points	Less than 0,18 D, m^{-1}					Luminous transmittance	According to 4.6.2.2					Uniformity of luminous transmittance	According to 4.1.3.1 of EN 1836:2005+A1:2007					Maximum reduced luminance coefficient	Single lens goggles: $\leq 1 \text{ cd/m}^2/\text{lx}$					Multiple lens goggles: $\leq 2 \text{ cd/m}^2/\text{lx}$					Quality of material and surface	According to 4.4 of EN 1836:2005+A1:2007					Resistance to ultraviolet radiation	After the testing according to 5.7, the maximum reduced luminance coefficient shall not exceed the values shown in this table.					
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<p>4.6.2.2</p>	<p>Permissible transmittance and filter categories</p> <p>There are three transmittance categories for oculars for goggles for motorcycle and moped users. The range of the luminous transmittance for these three categories is given by the values in Table 2. An overlap of the transmittance values of not more than $\pm 2 \%$ (absolute) is permitted between the categories 0,1 and 2.</p> <p>If the supplier declares a luminous transmittance value, the tolerance for the value is $\pm 3 \%$ absolute for transmittance values.</p> <p>When describing the transmittance properties of photochromic filters, two categories for transmittance values are generally used. These two values correspond to the faded state and to the darkened state of the filter.</p> <p>In the case of gradient filters the transmittance value at the reference point is used to characterise the luminous transmittance / category of the oculars.</p> <p>Table 2 also specifies the mandatory UV requirements for oculars for goggles for motorcycle and moped users.</p> <p>Oculars for which the enhanced infrared absorption is claimed, shall meet the requirements of the last column of Table 2.</p>	<p style="text-align: center;">Pass See annex 3</p>																																																								



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Clause	Test Method/Requirement	Result																																									
	<p align="center">Table 2 — Permissible transmittance for oculars</p> <table border="1"> <thead> <tr> <th rowspan="3">Filter category</th> <th colspan="3">Mandatory requirements</th> <th rowspan="3">Visible range</th> <th rowspan="3">Spectral range</th> <th rowspan="3">Enhanced infrared absorption ^a</th> </tr> <tr> <th colspan="3">Ultraviolet Spectral range</th> </tr> <tr> <th>Maximum value of spectral transmittance τ_F (%)</th> <th>Maximum value of solar UVA transmittance τ_{SUVA} (%)</th> <th>Maximum value of solar infrared transmittance τ_{SIR}</th> </tr> </thead> <tbody> <tr> <td></td> <td>280 nm to 315 nm</td> <td>315 nm to 350 nm</td> <td>315 nm to 380 nm</td> <td>τ_V</td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>0,1 · τ_V</td> <td>τ_V</td> <td>τ_V</td> <td>80 % to 100 %</td> <td></td> <td>τ_V</td> </tr> <tr> <td>1</td> <td>0,1 · τ_V</td> <td>τ_V</td> <td>τ_V</td> <td>43 % to 80 %</td> <td></td> <td>τ_V</td> </tr> <tr> <td>2</td> <td>0,1 · τ_V</td> <td>τ_V</td> <td>τ_V</td> <td>18 % to 43 %</td> <td></td> <td>τ_V</td> </tr> </tbody> </table> <p>^a Only applicable to goggles recommended by the manufacturer as a protection against infrared radiation. In case of oculars with a luminous transmittance of less than 75 % the manufacturer shall include in the information to be supplied the warning: "Not suitable for night driving or twilight condition".</p>	Filter category	Mandatory requirements			Visible range	Spectral range	Enhanced infrared absorption ^a	Ultraviolet Spectral range			Maximum value of spectral transmittance τ_F (%)	Maximum value of solar UVA transmittance τ_{SUVA} (%)	Maximum value of solar infrared transmittance τ_{SIR}		280 nm to 315 nm	315 nm to 350 nm	315 nm to 380 nm	τ_V			0	0,1 · τ_V	τ_V	τ_V	80 % to 100 %		τ_V	1	0,1 · τ_V	τ_V	τ_V	43 % to 80 %		τ_V	2	0,1 · τ_V	τ_V	τ_V	18 % to 43 %		τ_V	
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4.6.2.3	<p>Special transmittance requirements and claimed transmittance properties If the oculars have special transmittance requirements and/or the claimed transmittance properties described in 4.1.3 and 4.1.4 of EN 1836:2005+A1:2007 then the oculars shall satisfy the requirements described in each corresponding clause of EN 1836:2005+A1:2007. All oculars shall have a luminous transmittance value greater than or equal to 18 %.</p>	NA																																									
4.6.2.4	<p>Requirements for road driving</p>																																										
4.6.2.4.1	<p>Recognition of signal lights The goggles shall satisfy the requirement of the recognition of signal lights according to 4.1.3.2.3 of EN 1836:2005+A1:2007.</p>	Pass See annex 6																																									
4.6.2.4.2	<p>Spectral transmittance The goggles shall satisfy the requirement of the spectral transmittance according to 4.1.3.2.2 of EN 1836:2005+A1:2007.</p>	Pass See annex 7																																									
4.7	<p>Non optical requirements</p>																																										
4.7.1	<p>General The requirements apply to goggles with all the oculars declared by the manufacturer. If the only difference between oculars is the colour, the compliance can be verified only on one type.</p>	Pass																																									
4.7.2	<p>Impact resistance The requirement is satisfied if the goggles withstand the impact of a steel ball, when tested in accordance with 5.8. On so testing the following defects shall not occur: a) ocular fracture: an ocular shall be considered to have fractured if it cracks through its entire thickness into two or more pieces, or if the ball passes through the ocular; b) ocular deformation: an ocular shall be considered to have been deformed if a mark appears on the white paper on the opposite side to that struck by the ball; c) ocular housing or frame fracture: an ocular housing or frame shall be considered to have failed if it separates into two or more pieces, or if it is no longer capable of holding an ocular in position, or if an unbroken ocular detaches from the frame.</p>	Pass																																									



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Clause	Test Method/Requirement	Result
4.7.3	Resistance to surface damage by fine particles After the test described in 5.9 is made on the external face, the goggle's oculars shall have a reduced luminance coefficient of not more than 10 cd/m ² /lx.	Pass See annex 8
4.8	Optional requirements – Resistance to fogging If resistance to fogging is claimed, then the oculars of the goggles shall remain free from fogging for a minimum of 30 s when tested in accordance with 5.10.	NA
6	Information supplied by the manufacturer	NT
	The following information shall be supplied by the manufacturer at least in the official language(s) of the Member State of destination. This information shall be supplied with each goggle in the form of a notice, or markings on the frame, or on the packaging, or a label affixed to the goggle or any combinations thereof:	NT
	a) name and address of the manufacturer;	NT
	b) number of this European Standard and the date of its publication;	NT
	c) model identification number;	NT
	d) specification of the field of use: goggles for all kind of motorcycle and moped activities except official races and competitions;	NT
	e) in the case of oculars that do not meet the requirements of spectral transmittance and/or recognition of signal lights, according to 4.6.2.4, the following warning: "Not suitable for driving and road use";	NT
	f) instruction for storage, use and maintenance;	NT
	g) specific instructions for cleaning and disinfection;	NT
	h) details of the field of use, protection capabilities and performance characteristics (filter category number; warning against night driving, when appropriate; warning for off road use only, when appropriate; papillary distance; for oculars with a luminous transmittance of less than 75 % the warning: "Not suitable for night driving or twilight condition");	NT
	i) details of suitable accessories and spare parts and instruction for fitting;	NT
	j) the significance of the markings;	NT
k) a warning that scratched or damaged oculars should be replaced.	NT	
7	Marking	
	The markings described below shall be permanently attached on the product itself or printed on a label permanently affixed to it, and shall remain visible and legible during the useful life of the product:	NT
	a) number and the year of this European Standard;	NT
	b) identification of the manufacturer;	NT
	c) model designation;	NT



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Clause	Test Method/Requirement	Result
	<p>d) either of the symbols shown in Figure 5 for goggles which do not comply with 4.6.2.4.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>ISO 7000-08-022 Version A</p> </div> <div style="text-align: center;">  <p>ISO 7000-08-022 Version B</p> </div> </div> <p style="text-align: center;">Figure 5 — Symbol "not suitable for road use"</p>	NT

Model: HB-306

Annex 1: Refractive power test results:

Sample No.	Spherical power (m ⁻¹) (D ₁ +D ₂)/2		Difference between the spherical powers of the left and right visual points	Astigmatic power (m ⁻¹) D ₁ -D ₂		Prismatic power (cm/m)			Assessment
	Left	Right		Left	Right	Horizontal		Vertical	
						Base out	Base in		
4	-0.02	-0.02	0.02	0.06	0.05	0.22	/	0.01	Pass
5	-0.01	-0.01	0.01	0.07	0.06	0.20	/	0.02	Pass
6	-0.02	-0.03	0.02	0.05	0.07	0.21	/	0.02	Pass



Annex 2: Transmittance test results:

Sample No.		Ultraviolet spectral range			Visible spectral range	Enhanced infrared absorption	Assessment
		Maximum value of Spectral transmittance		Maximum value of Solar UVA transmittance	Luminous transmittance	Maximum value of Solar infrared transmittance	
		280nm to 315nm	315nm to 350nm	315nm to 380nm	380nm to 780nm	780nm to 2000nm	
1	Left	0.01%	0.00%	0.00%	91.13%	/	Pass
	Right	0.00%	0.00%	0.00%	90.85%	/	Pass
2	Left	0.00%	0.00%	0.00%	91.04%	/	Pass
	Right	0.00%	0.00%	0.00%	90.66%	/	Pass
3	Left	0.01%	0.00%	0.00%	91.08%	/	Pass
	Right	0.00%	0.01%	0.00%	90.43%	/	Pass

Annex 3: Variations in luminous transmittance test results:

Sample No.	Luminous transmittance (%)			Assessment
	Relative difference between maximum and minimum values (Left ocular)	Relative difference between maximum and minimum values (Right ocular)	Relative Difference between left and right oculars	
1	0.63%	0.28%	1.22%	Pass
2	0.47%	0.52%	0.85%	Pass
3	0.36%	0.84%	1.04%	Pass

Annex 4: Maximum reduced luminance coefficient test results:

Sample No.	Type	Maximum reduced luminance coefficient			Assessment
		Left	Right	Requirements	
1	/	0.20	0.22	$\leq 1.0 \frac{cd/m^2}{lx}$ for Single lens goggles	Pass
2		0.26	0.20		$\leq 2.0 \frac{cd/m^2}{lx}$ for Multiple lens goggles
3		0.21	0.24	Pass	



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Annex 5: Resistance to ultraviolet radiation test results:

Sample No. Class		Type	Maximum reduced luminance coefficient (After ultraviolet radiation)		Assessment
			Results	Requirements	
1	Left	/	0.24	$\leq 1.0 \frac{cd/m^2}{lx}$ for Single lens goggles $\leq 2.0 \frac{cd/m^2}{lx}$ for Multiple lens goggles	Pass
	Right		0.25		Pass
2	Left		0.28		Pass
	Right		0.24		Pass
3	Left		0.25		Pass
	Right		0.27		Pass

Annex 6: Recognition of signal lights tests result

Visor No.		Red signal light (Q≥0.80)	Yellow signal light (Q≥0.80)	Green signal light (Q≥0.60)	Blue signal light (Q≥0.40)	Result
1	Left	1.01	1.00	1.00	1.00	Pass
	Right	1.01	1.00	1.00	1.00	Pass
2	Left	1.01	1.00	1.00	1.00	Pass
	Right	1.01	1.00	1.00	1.00	Pass
3	Left	1.01	1.00	1.00	1.00	Pass
	Right	1.01	1.00	1.00	1.00	Pass

Annex 7: Spectral transmittance in the range 500nm to 650nm tests result

Visor No.	Spectral transmittance (≥0.2τ)	Result
1	>0.2τ	Pass
2	>0.2τ	Pass
3	>0.2τ	Pass

Annex 8: Resistance to surface damage by fine particles

Sample No.	Maximum reduced luminance coefficient (After treatment)			Assessment
	Left	Right	Requirements	
15	5.46	5.38	$\leq 10.0 \frac{cd/m^2}{lx}$	Pass
16	4.97	5.04		Pass



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II. Analysis of AZO Dye and to Determine the PH Value in the submitted sample.

SGS Ref No.: CAN21-017992

Test Requested	Result
pH value	See Results
Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azodyes	PASS

Test Results :

Test Part Description :

SGS Sample ID	Description
CAN21-017992.001	Black elastic belt
CAN21-017992.002	Red fleece sheet

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

pH value

Test Method : With reference to ISO 3071:2020, analysis was performed by pH meter.

Test Item(s)	001	002
pH value	6.4	6.3

Notes :

- (1)Extraction medium: KCl solution
- (2)pH value of extraction medium: 5.0 - 7.5
- (3)Temperature of the extraction solution: 22±2°C



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Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006
-Azo Dyes

Test Method : With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.
 Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017,
 analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002
					<i>Method B</i>
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND
Benzidine	92-87-5	30	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND
2-Amino-4-nitrotoluene					
4-chloroaniline	106-47-8	30	mg/kg	5	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND
/ 2,4-Diaminoanisole					
4,4'-diaminodiphenylmethane,	101-77-9	30	mg/kg	5	ND
MDA					
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND
Dimethyl-4,4'-diaminodiphenylm					
ethane					
p-cresidine	120-71-8	30	mg/kg	5	ND
4,4'-methylene-bis-	101-14-4	30	mg/kg	5	ND
(2-chloroaniline)					
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND
o-toluidine	95-53-4	30	mg/kg	5	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND
2,4-Toluyldiamine, TDA					
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND

Comment

PASS

Notes :

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.



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3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

Sample photo:



Product Photo



Product Photo



III. Colour Fastness to Perspiration.

1. SGS Ref. No.: SL92109221310701TX

Test Result:

Colour Fastness To Perspiration

(ISO 105-E04:2013; test specimen in vertical position)

Acid

	Unit	A	Requirement
-			
Change in Shade	Grade	4-5	-
Staining On Multi-fibre Stripe			
Acetate	Grade	4-5	-
Cotton	Grade	4-5	-
Polyamide	Grade	4-5	-
Polyester	Grade	4-5	-
Acrylic	Grade	4-5	-
Wool	Grade	4-5	-

Alkaline

	Unit	A	Requirement
-			
Change in Shade	Grade	4-5	-
Staining On Multi-fibre Stripe			
Acetate	Grade	4-5	-
Cotton	Grade	4-5	-
Polyamide	Grade	4-5	-
Polyester	Grade	4-5	-
Acrylic	Grade	4-5	-
Wool	Grade	4-5	-

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



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Sample Photo



2. SGS Ref. No.: **SL92109241975201TX**

Test Result

Colour Fastness To Perspiration

(ISO 105-E04:2013; test specimen in vertical position)

Acid

	Unit	A	Requirement
-			
Change in Shade	Grade	4-5	-
Staining On Multi-fibre Stripe			-
Acetate	Grade	4-5	-
Cotton	Grade	4-5	-
Polyamide	Grade	4	-
Polyester	Grade	4-5	-
Acrylic	Grade	4-5	-
Wool	Grade	4-5	-

Alkaline

	Unit	A	Requirement
-			
Change in Shade	Grade	4-5	-
Staining On Multi-fibre Stripe			-
Acetate	Grade	4-5	-
Cotton	Grade	4-5	-
Polyamide	Grade	4	-
Polyester	Grade	4-5	-
Acrylic	Grade	4-5	-
Wool	Grade	4-5	-



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Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Sample Photo



Remark:

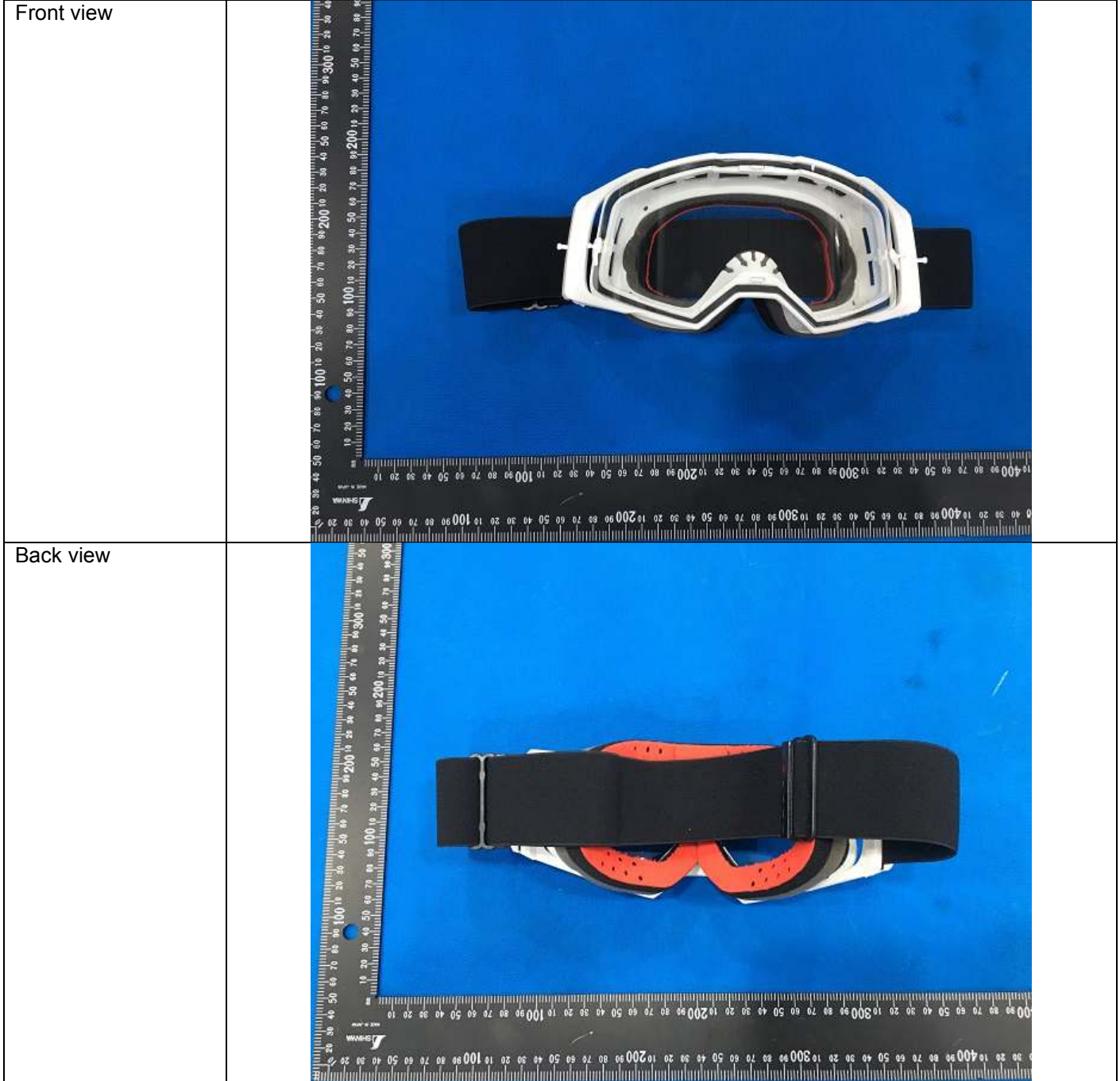
1. Pass means the test sample met the requirement of the test item.
2. NA means not applicable.
NT means not tested as per client's request.
3. A material list for each part of the product and a statement to announce the material complying with requirements of the standard are received from the manufacturer.



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Sample photos:



End of Report

