Test Report Number: SZHH01488788S2

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

Date: Aug 25, 2020

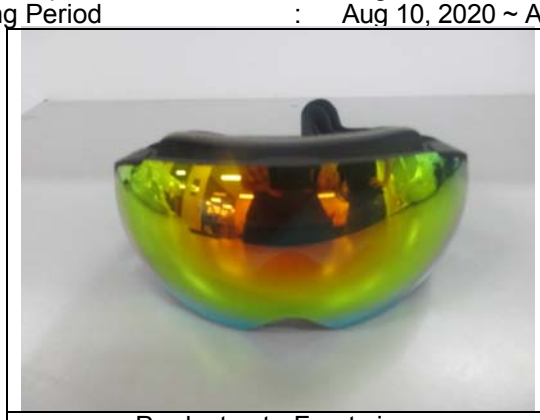
Attn: Ley Liu

This is to supersede Report No. SZHH01488788S1 dated Aug 25, 2020

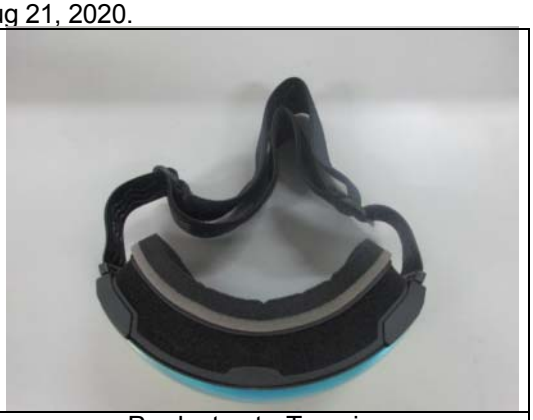
Sample Description:

Twenty (20) pieces of submitted sample said to be :

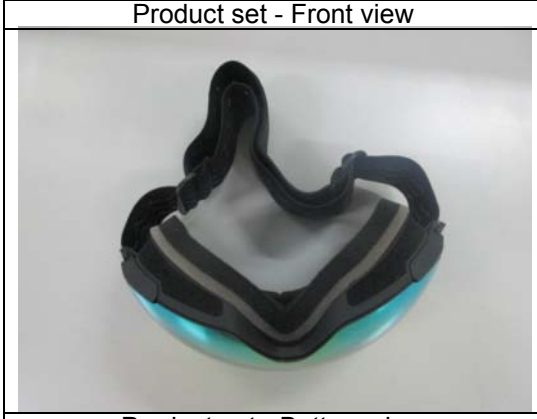
Item Name	:	**SKI Goggles.**
Item No.	:	**HB-181.**
Manufacturer	:	HUBO Sports Products Co., Limited.
Country of Origin	:	China.
Date Sample Received	:	Aug 10, 2020.
Testing Period	:	Aug 10, 2020 ~ Aug 21, 2020.



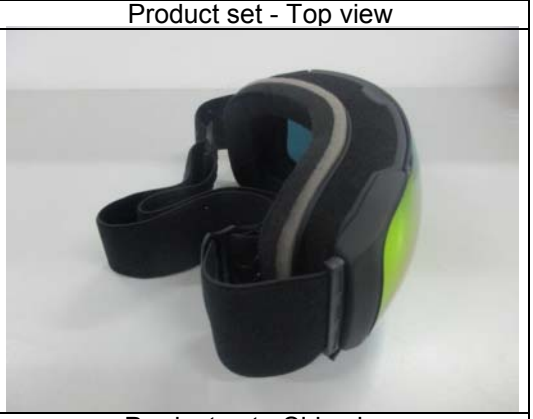
Product set - Front view



Product set - Top view



Product set - Bottom view



Product set - Side view

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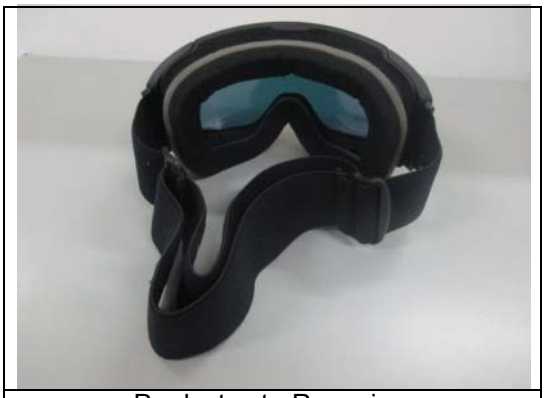

Product set - Rear view

Tests conducted:
As requested by the applicant, refer to attached page(s) for details.

Conclusion:

Tested sample	Requirement	Result
Submitted samples	EN 174: 2001 Personal eye-protection – Ski goggles for downhill skiing Excluding: - Clause 4.2 Materials - Clause 5.5 Suitability for cleaning and care - Clause 7 Information supplied by the manufacturers	Pass
	Standard	
Tested components of submitted sample	ISO 105-E04: 2013(E) - Tests for colour fastness Part E04: Colour fastness to perspiration	See test conducted
	EN ISO 21420:2020, Protective gloves, Section 4.2.c on pH Value	Pass
	Azocolourants Content Requirement in Annex XVII Item 43 of The REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.

Rachel L. Guo
General Manager

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Tests Conducted

1 Requirements for Ski Goggles

Test standard: EN 174:2001 – Personal Eye-Protection – Ski Goggles for Downhill Skiing

Number of samples tested: Eleven (11) pairs

Note:
(1) No parts of the ski goggle which are in contact with wearer shall be made of materials that are known to cause irritation, allergic ore toxic reaction in a normal state of health amongst a significant proportion of users.

(2) CE marking is not specified in EN 174:2001 but per Regulation (EU) 2016/425, Article 16 & Article 17, the CE marking shall be affixed visibly, legibly and indelibly to the ski googles frame. The format of this CE marking was given in Annex II of Regulation (EC) No 765/2008.

It was found that the CE marking was provided on the eye-protectors.

Clause	Requirement	Result
4.1	General requirements	P
4.2	Materials	See note (1)
4.3	Sit and fit	P#1
4.4	Ventilation	P
5.1	Optical requirements	
5.1.1	Field of vision	P
5.1.2	Lens requirements (See test data)	
	Optical power	P
	Transmittance	P
	Variations in luminous transmittance	P
	*Maximum reduced luminance coefficient	P
	Quality of material and surface	P
	*Resistance to ultraviolet radiation	P
5.2	Mechanical strength	P
*5.3	Protection against water and snow	P
5.4	Resistance to ignition	P
5.5	Suitability for cleaning and care	#2
5.6	Optional specification	
5.6.1	Resistance to surface damage by fine particles	NA
*5.6.2	Resistance to fogging of oculars	P
5.6.3	Enhanced infrared absorption of oculars	NA
7	Information supplied by the manufacturers	#3(See note (2))

Abbreviation: P = Pass; NA = Not Applicable
Note: * = The tests were subcontracted items.

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Tests Conducted

Test data:

5.1.2 Lens requirements - Optical power:

Optical power	Sample	Left ocular	Right ocular	Optical class
Spherical power (m^{-1})	1	-0.08	-0.06	Class 1
	2	-0.08	-0.08	
	3	-0.08	-0.08	
Astigmatic power (m^{-1})	1	0.07	0.04	
	2	0.07	0.03	
	3	0.07	0.05	

	Sample	Horizontal	Vertical	Base in/out
Prismatic power difference (cm/m)	1	0.685	0.000	Base out
	2	0.651	0.037	Base out
	3	0.643	0.025	Base out

Requirement:

Optical Class	Spherical Power (m^{-1})	Astigmatic power (m^{-1})	Prismatic power difference (cm/m)		
			Horizontal limit		Vertical limit
			Base out	Base in	
1	±0.09	0.09	0.75	0.25	0.25
2	±0.12	0.12	1.00	0.25	0.25

Transmittance:

Range	Sample	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (Tv)	1	13.60	12.33	3
	2	12.71	11.37	3
	3	15.60	13.67	3

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Tests Conducted

For ultraviolet spectral range:

Range	Sample	Maximum transmittance (%)		limit (%)	
		Left ocular	Right ocular	Left	Right
280 – 315nm (UVB)	1	0.00	0.00	≤ 0.03 Tv (0.41)	≤ 0.03 Tv (0.37)
	2	0.00	0.00	≤ 0.03 Tv (0.38)	≤ 0.03 Tv (0.34)
	3	0.00	0.00	≤ 0.03 Tv (0.47)	≤ 0.03 Tv (0.41)
315 – 350nm (UVA)	1	0.00	0.00	≤ 0.15 Tv (2.04)	≤ 0.15 Tv (1.85)
	2	0.00	0.00	≤ 0.15 Tv (1.91)	≤ 0.15 Tv (1.71)
	3	0.00	0.00	≤ 0.15 Tv (2.34)	≤ 0.15 Tv (2.05)
315 – 380nm (TSUVA)	1	0.00	0.00	≤ 0.15 Tv (2.04)	≤ 0.15 Tv (1.85)
	2	0.00	0.00	≤ 0.15 Tv (1.91)	≤ 0.15 Tv (1.71)
	3	0.00	0.00	≤ 0.15 Tv (2.34)	≤ 0.15 Tv (2.05)

Requirement:

Filter category	Ultraviolet spectral range			Visible spectral range	
	Maximum value of spectral transmittance T(λ)		Maximum value of solar UVA transmittance T_{SUVA}	Range of luminous transmittance (Tv)	
	208 nm to 315nm	Over 315nm to 350nm	315nm to 380nm	From over%	To%
S0	0.03 Tv	0.3 Tv	0.3 Tv	80.0	100
S1				43.0	80.0
S2				18.0	43.0
S3		0.15 Tv	0.15 Tv	8.0	18.0
S4				3.0	8.0

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Tests Conducted

Variations in luminous transmittance

Sample	% variation within filter (Relative to higher value)		%difference between filters (Relative to higher filter)
	Left ocular	Right ocular	
1	2.23	3.29	9.34
2	4.22	3.15	10.54
3	3.14	2.96	12.37
Requirement	≤ 10%		≤ 20%

Maximum reduced luminance coefficient

Sample	Maximum reduced luminance coefficient (cd/m^2)/lx		Class	Limit
	Left ocular	Right ocular		
1	0.14	0.25	1	Diffusion of light (maximum): - Class 1: 1.0 (cd/m^2)/lx - Class 2: 2.0 (cd/m^2)/lx
2	0.14	0.12	1	
3	0.03	0.31	1	

Resistance to ultraviolet radiation:

Sample	Relative change in the luminous transmittance (%)		Limit
	Left ocular	Right ocular	
1	1.84	0.49	±5% for filters of category S0 ±10% for filters of category S1 ±20% for filters of all other categories
2	2.36	2.37	

Sample	Maximum reduced luminance coefficient (cd/m^2)/lx		Class	Limit
	Left ocular	Right ocular		
1	0.12	0.13	1	Diffusion of light (maximum): - Class 1: 1.0 (cd/m^2)/lx - Class 2: 2.0 (cd/m^2)/lx
2	0.02	0.02	1	

5.6.2 Resistance to fogging of oculars

Time of remain free from fogging (s)	Sample 10 - Left ocular	>30	Requirement ≥ 30
	Sample 10 - Right ocular	>30	
	Sample 11 - Left ocular	>30	
	Sample 11 - Right ocular	>30	

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Tests Conducted

Remarks:

#1 - Your attention is drawn to the requirement of the lens retention in the ski goggle in using magnet, in respect to the normal and foreseeable use and misuse condition, which is in our opinion, not covered in the standard.

#2 - No assessment was made on the suitability for cleaning and cares as such information was not provided by the applicant.

#3 - The applicant's attention is drawn to provide the following minimum information in the national language(s) of the country of sale, in the form of a marking on the ski goggles, an affixed label or packaging, or any combination thereof:

a) Number and date of this standard;
b) Filter categories;
c) Antifogging (if applicable);
d) Name and address of the manufacturer or supplier;
e) Instructions for storage, use and maintenance;
f) Specific instructions for cleaning and disinfection;
g) Details of the field of use, protection capabilities and performance characteristics;
h) Details of suitable accessories and spare parts and instructions for fitting;
i) "Do not use ski goggles in road and when driving", the following information shall be available from the manufacturer or supplier:
   a) optical class;
   b) a transmittance curve of a filter lens

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Tests Conducted

2 Colour Fastness to Perspiration

As per ISO 105-E04: 2013(E) – Tests for colour fastness part E04: Colour fastness to perspiration.

	Result			
	Alkaline (pH8) solution		Acid (pH5.5) solution	
	(1)	(2)	(1)	(2)
Colour change	4-5	4-5	4-5	4-5
Colour staining				
- Acetate	4-5	4-5	4-5	4-5
- Cotton	4-5	4-5	4-5	4-5
- Nylon	4-5	4-5	4-5	4-5
- Polyester	4-5	4-5	4-5	4-5
- Acrylic	4-5	4-5	4-5	4-5
- Wool	4-5	4-5	4-5	4-5

Remark : Evaluating against ISO grey scale.
Commercial recommended ratings (for reference only):
Colour change : 4 or higher
Colour staining : 3 or higher

Adjacent fabric used:
- Multifibre adjacent fabric as per ISO 105-F10

Tested Components:

(1) Black elastic band (strap)
(2) Black fleece (contact face part)

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Tests Conducted

3 pH Value

With reference to ISO 4045:2018 for leather and ISO 3071:2020 for other materials.

Element/Test Item	1	2	-	-	-	Limit
pH Value	6.3	6.2	-	-	-	3.5-9.5

Tested Component(s): See component list in the last section of this report

4 Detection of Amines Derived from Azocolourants and Azodyes

With reference to EN 14362-1:2012 for Textile Material, EN ISO 17234-1:2010 for Leather Material, and/or EN 14362-3:2012 & EN ISO 17234-2:2011 for 4-Aminoazobenzene, By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Element/Test Item	CAS No.	1+2	-	-	-	-	Units	D.L.	Limit
4-Aminodiphenyl	92-67-1	ND	-	-	-	-	mg/kg	5	30
Benzidine	92-87-5	ND	-	-	-	-	mg/kg	5	30
4-Chloro-o-toluidine	95-69-2	ND	-	-	-	-	mg/kg	5	30
2-Naphthylamine	91-59-8	ND	-	-	-	-	mg/kg	5	30
o-Aminoazotoluene	97-56-3	ND	-	-	-	-	mg/kg	5	30
2-Amino-4-nitrotoluene	99-55-8	ND	-	-	-	-	mg/kg	5	30
4-Chloroaniline	106-47-8	ND	-	-	-	-	mg/kg	5	30
2,4-Diaminoanisole	615-05-4	ND	-	-	-	-	mg/kg	5	30
4,4'-Diaminodiphenylmethane	101-77-9	ND	-	-	-	-	mg/kg	5	30
3,3'-Dichlorobenzidine	91-94-1	ND	-	-	-	-	mg/kg	5	30
3,3'-Dimethoxybenzidine	119-90-4	ND	-	-	-	-	mg/kg	5	30
3,3'-Dimethylbenzidine	119-93-7	ND	-	-	-	-	mg/kg	5	30
4,4'-Methylenedi-o-toluidine	838-88-0	ND	-	-	-	-	mg/kg	5	30
p-Cresidine	120-71-8	ND	-	-	-	-	mg/kg	5	30
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	-	-	-	-	mg/kg	5	30
4,4'-Oxydianiline	101-80-4	ND	-	-	-	-	mg/kg	5	30
4,4'-Thiodianiline	139-65-1	ND	-	-	-	-	mg/kg	5	30
o-Toluidine	95-53-4	ND	-	-	-	-	mg/kg	5	30
2,4-Toluylendiamine	95-80-7	ND	-	-	-	-	mg/kg	5	30
2,4,5-Trimethylaniline	137-17-7	ND	-	-	-	-	mg/kg	5	30
o-Anisidine	90-04-0	ND	-	-	-	-	mg/kg	5	30
4-Aminoazobenzene	60-09-3	ND	-	-	-	-	mg/kg	5	30

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Tests Conducted

Remarks:
D.L. = Detection Limit
ND = Not detected

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) No 126/2013, Annex XVII Entry 43 on Azodyes releasing Aromatic Amines.

According to the official method EN 14362-1:2012, if each amine is found < 30 mg/kg, azo colorants which can release the listed aromatic amines were not detected.

According to the official method EN 14362-3:2012, if 4-aminoazobenzene is found < 30 mg/kg, azo colorants which can release 4-aminoazobenzen was not detected.

Tested Component(s): See component list in the last section of this report

Component List

No.	Test Component Description(s)
(1)	Black/light black elastic band (fastener).
(2)	Blackish green fabric (body).

****

End of report

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To: HUBO SPORTS PRODUCTS CO.,LIMITED

Attention: Ley Liu Date: Aug 25, 2020

Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01488788S1 Dated Aug 25, 2020

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number SZHH01488788S2 Dated Aug 25, 2020

Below are revision details:

Report Number	SZHH01488788S1	SZHH01488788S2
Revise remark	Nil	Update pictures

Thank you for your attention.

Authorized by:
For Intertek Testing Services Shenzhen Ltd.

Rachel L. Guo
General Manager

Intertek Testing Services Shenzhen Ltd.
深圳天祥质量技术服务有限公司

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