

Test Report

Number: SZHH01488797S1

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

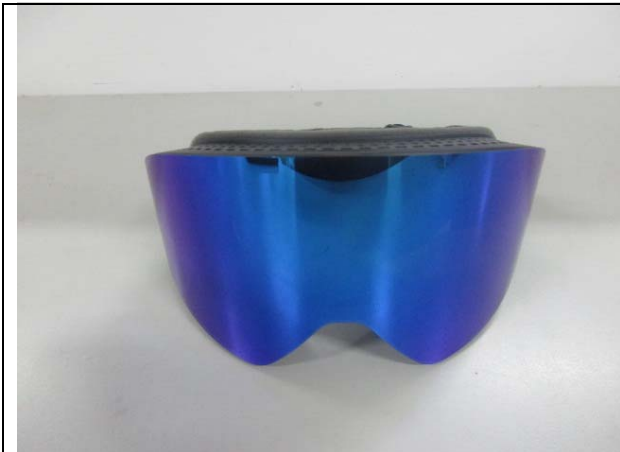
Attn: Ley Liu

*This is to supersede Report No.
SZHH01488797 dated Aug 21,
2020*

Sample Description:

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

Item Name : **SKI Goggles.**
Item No. : **HB-197.**
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



Test Report

Number: SZHH01488797S1



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

Conclusion:

Tested sample
Submitted samples

Requirement
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

Result
Pass

Tested components of submitted sample

Standard
ISO 105-E04: 2013(E) - Tests for colour fastness Part E04: Colour fastness to perspiration

See test conducted

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager



Test Report

Number: SZHH01488797S1

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 or 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 goggles 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.



Test Report

Number: SZHH01488797S1

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 | -0.03 | -0.05 | Class 1 |
| | 2 | -0.04 | -0.02 | |
| | 3 | -0.04 | -0.04 | |
| Astigmatic power (m ⁻¹) | 1 | 0.02 | 0.05 | |
| | 2 | 0.02 | 0.00 | |
| | 3 | 0.04 | 0.01 | |

| Prismatic power difference (cm/m) | Sample | Horizontal | Vertical | Base in/out |
|-----------------------------------|--------|------------|----------|-------------|
| | 1 | 0.276 | 0.017 | Base out |
| | 2 | 0.234 | 0.035 | Base out |
| | 3 | 0.300 | 0.003 | 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 | 11.83 | 12.07 | S3 |
| | 2 | 11.93 | 10.69 | S3 |
| | 3 | 12.66 | 12.59 | S3 |



Test Report

Number: SZHH01488797S1

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 (0.35) | ≤ 0.03 Tv (0.36) |
| | 2 | 0.00 | 0.00 | ≤ 0.03 Tv (0.36) | ≤ 0.03 Tv (0.32) |
| | 3 | 0.00 | 0.00 | ≤ 0.03 Tv (0.38) | ≤ 0.03 Tv (0.38) |
| 315 – 350nm (UVA) | 1 | 0.00 | 0.00 | ≤ 0.15 Tv (1.77) | ≤ 0.15 Tv (1.81) |
| | 2 | 0.00 | 0.00 | ≤ 0.15 Tv (1.79) | ≤ 0.15 Tv (1.60) |
| | 3 | 0.00 | 0.00 | ≤ 0.15 Tv (1.90) | ≤ 0.15 Tv (1.89) |
| 315 – 380nm (TSUVA) | 1 | 0.00 | 0.00 | ≤ 0.15 Tv (1.77) | ≤ 0.15 Tv (1.81) |
| | 2 | 0.00 | 0.00 | ≤ 0.15 Tv (1.79) | ≤ 0.15 Tv (1.60) |
| | 3 | 0.00 | 0.00 | ≤ 0.15 Tv (1.90) | ≤ 0.15 Tv (1.89) |

Requirement:

| Filter category | Ultraviolet spectral range | | | Visible spectral range | |
|-----------------|--|---------------------|--|--------------------------------------|------|
| | Maximum value of spectral transmittance T(λ) | | Maximum value of solar UVA transmittance TSUVA | 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 | 0.15 Tv | 8.0 | 18.0 |
| S4 | | | | 3.0 | 8.0 |



Test Report

Number: SZHH01488797S1

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 | 2.95 | 6.07 | 1.99 |
| 2 | 3.97 | 5.57 | 10.39 |
| 3 | 7.86 | 2.02 | 0.55 |
| Requirement | ≤ 10% | | ≤ 20% |

Maximum reduced luminance coefficient

| Sample | Maximum reduced luminance coefficient (cd/m ²)/lx | | Class | Limit |
|--------|---|--------------|-------|---|
| | Left ocular | Right ocular | | |
| 1 | 0.05 | 0.05 | 1 | Diffusion of light (maximum): - Class 1: 1.0 (cd/m ²)/lx - Class 2: 2.0 (cd/m ²)/lx |
| 2 | 0.16 | 0.05 | 1 | |
| 3 | 0.09 | 0.13 | 1 | |

Resistance to ultraviolet radiation:

| Sample | Relative change in the luminous transmittance (%) | | Limit |
|--------|---|--------------|---|
| | Left ocular | Right ocular | |
| 1 | 0.93 | 2.32 | ±5% for filters of category S0 ±10% for filters of category S1 ±20% for filters of all other categories |
| 2 | 3.10 | 3.43 | |

| Sample | Maximum reduced luminance coefficient (cd/m ²)/lx | | Class | Limit |
|--------|---|--------------|-------|---|
| | Left ocular | Right ocular | | |
| 1 | 0.40 | 0.13 | 1 | Diffusion of light (maximum): - Class 1: 1.0 (cd/m ²)/lx - Class 2: 2.0 (cd/m ²)/lx |
| 2 | 0.04 | 0.05 | 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 | |



Test Report

Number: SZHH01488797S1

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



Test Report

Number: SZHH01488797S1

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 (body)



Test Report

Number: SZHH01488797S1

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 | 6.2 | 6.1 | - | - | - | 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-Toluyldiamine | 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 |



Test Report

Number: SZHH01488797S1

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-aminoazobenzene 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

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification.

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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 SZHH01488797 Dated Aug 21, 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, SZHH01488797S1 Dated Aug 25, 2020

Below are revision details:

| | | |
|---------------|--------------|-------------------|
| Report Number | SZHH01488797 | SZHH01488797S1 |
| Revise remark | Nil | Add more pictures |

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager

