**Test Report** Number: SHAH01337795

Applicant: MMC EYEWEAR
2 RUE PERLET,13007 MARSEILLE, FRANCE

Date: 12 May, 2021

Sample Description:

One (1) style of submitted samples said to be:

| | | |
|---|---|---|
| Item Name | : | SKI GOGGLES. |
| Item No. | : | HB-126B. |
| Supplier | : | HUBO SPORTS PRODUCTS CO.,LTD. |
| Buyer | : | MMC EYEWEAR. |
| Goods Exported to | : | FRANCE. |
| Country Of Origin | : | China. |

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Tests Conducted:

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

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Conclusion:

| Tested sample | Requirement | Result |
|---|---|---|
| Submitted samples | EN 174: 2001 Personal eye-protection – Ski goggles for downhill skiing<br>Excluding:<br>- Clause 4.2 Materials<br>- Clause 5.5 Suitability for cleaning and care<br>- Clause 7 Information supplied by the manufacturers | Pass |

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To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang, Wenzhou Branch

Peter Chen
General Manager



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**浙江天祥质量技术服务有限公司温州分公司**

Room 8205, 4F, No.827, Wenzhou Avenue, Longwan District, Wenzhou City, Zhejiang Province, China. 325000
中国浙江省温州市龙湾区温州大道 827 号 4 楼 8205 室
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Tests Conducted

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 sample 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 not provided on the submitted sample.

| Clause | Requirement | Result |
|---|---|---|
| 4.1 | General requirements | P |
| 4.2 | Materials | See note (1) |
| 4.3 | Sit and fit | P |
| 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 | #1 |
| 5.6 | Optional specifications | |
| 5.6.1 | Resistance to surface damage by fine particles | NA (No claim) |
| 5.6.2 | Resistance to fogging of oculars | P |
| 5.6.3 | Enhanced infrared absorption of oculars | NA (No claim) |
| 7 | Information supplied by the manufacturers | #2(See note (2)) |

Abbreviation: P = Pass; NA = Not Applicable;

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To be continued



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Test data:

5.1.2 Lens requirements - Optical power:

| Optical power | Sample | Left ocular | Right ocular | Optical class |
|---|---|---|---|---|
| Spherical power ($m^{-1}$) | 1 | -0.04 | -0.03 | Class 1 |
| Astigmatic power ($m^{-1}$) | 1 | 0.00 | 0.00 | |

| Prismatic power difference (cm/m) | Sample | Horizontal | Vertical | Base out |
|---|---|---|---|---|
| | 1 | 0.25 | 0.05 | Class 1 |

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 ($\tau_v$) | 2 | 19.09 | 19.57 | S2 |

For ultraviolet spectral range:

| Range | Sample | Maximum transmittance (%) | | Requirement (%) | |
|---|---|---|---|---|---|
| | | Left ocular | Right ocular | Left | Right |
| 280 – 315nm (UVB) | 2 | 0.00 | 0.00 | $\leq 0.03\ \tau_v$ (0.57) | $\leq 0.03\ \tau_v$ (0.59) |
| 315 – 350nm (UVA) | 2 | 0.00 | 0.00 | $\leq 0.3\ \tau_v$ (5.73) | $\leq 0.3\ \tau_v$ (5.87) |
| 315 – 380nm ($\tau_{SUVA}$) | 2 | 0.00 | 0.00 | $\leq 0.3\ \tau_v$ (5.73) | $\leq 0.3\ \tau_v$ (5.87) |

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To be continued



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Requirement:

| Filter category | Ultraviolet spectral range | | | Visible spectral range | |
|---|---|---|---|---|---|
| | Maximum value of spectral transmittance $\tau_{(\lambda)}$ | | Maximum value of solar UVA transmittance $\tau_{SUVA}$ | Range of luminous transmittance ($\tau_v$) | |
| | 280 nm to 315nm | Over 315nm to 350nm | 315nm to 380nm | From over% | To% |
| S0 | 0.03 $\tau_v$ | 0.3 $\tau_v$ | 0.3 $\tau_v$ | 80.0 | 100 |
| S1 | | | | 43.0 | 80.0 |
| S2 | | | | 18.0 | 43.0 |
| S3 | | 0.15 $\tau_v$ | 0.15 $\tau_v$ | 8.0 | 18.0 |
| S4 | | | | 3.0 | 8.0 |

Variations in luminous transmittance

| Sample | Variation within filter [relative to higher value] | | Difference between filters [relative to lighter filter] |
|---|---|---|---|
| | Left ocular (%) | Right ocular (%) | |
| 2 | 8.46 | 9.60 | 2.42 |
| Requirement (%) | ≤ 10 | | ≤ 20 |

Maximum reduced luminance coefficient

| Sample | Maximum reduced luminance coefficient ($cd/m^2$)/lx | | Class | Requirement |
|---|---|---|---|---|
| | Left ocular | Right ocular | | |
| 3 | 0.44 | 0.27 | Class 1 | Diffusion of light (maximum):<br>- Class 1: 1.0 ($cd/m^2$)/lx<br>- Class 2: 2.0 ($cd/m^2$)/lx |

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To be continued



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Resistance to ultraviolet radiation:

| Sample | Relative change in the luminous transmittance (%) | | Requirement |
|---|---|---|---|
| | Left ocular | Right ocular | |
| 2 | +0.4 | -1.0 | ±5% for filters of category S0<br>±10% for filters of category S1<br>±20% for filters of all other categories |

| Sample | Maximum reduced luminance coefficient ($cd/m^2$)/lx | | Class | Requirement |
|---|---|---|---|---|
| | Left ocular | Right ocular | | |
| 3 | 0.30 | 0.27 | Class 1 | Diffusion of light (maximum):<br>- Class 1: 1.0 ($cd/m^2$)/lx<br>- Class 2: 2.0 ($cd/m^2$)/lx |

5.6.2 Resistance to fogging of oculars

| | | | |
|---|---|---|---|
| Time of remain free from fogging (s) | Sample 5 - Left ocular | ＞ 50.0 | Requirement ≥ 30 |
| | Sample 5 - Right ocular | ＞ 50.0 | |
| | Sample 6 - Left ocular | ＞ 50.0 | |
| | Sample 6 - Right ocular | ＞ 50.0 | |

Remarks:

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

#2 - 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.

Date sample received : May 7, 2021
Testing period : May 7, 2021 To May 11, 2021

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To be continued



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End of report





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