

## Test Report

Number: SZHH01637343

Applicant: Guangzhou SPOSUNE Glasses CO.,Ltd  
NO.13 Tie Shan He Road,Huashan Town  
Huadu District,Guangzhou,China

Date: Dec 28, 2021

Attn: Zhang Ai Ping

### Sample Description:

Three (3) pieces of submitted sample said to be :

Item Name : **Ski Goggles**  
Item No. : **HX-035**  
Manufacturer : Guangzhou SPOSUNE Glasses CO.,Ltd  
Country of Origin : China  
Date Sample Received : Dec 08, 2021  
Testing Period : Dec 08, 2021 ~ Dec 28, 2021

**SZHH01637343**



### Tests conducted:

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

### Conclusion:

| <u>Tested sample</u> | <u>Requirement</u>   | <u>Result</u> |
|----------------------|--|---------------|
| Submitted samples    | EN 174: 2001 Personal eye-protection – Ski goggles for downhill skiing<br>Excluding:<br>- Clause 4.2 Materials<br>- Clause 5.1.2 – Lens requirement - Variations in luminous transmittance<br>- Clause 5.5 Suitability for cleaning and care<br>- Clause 7 Information supplied by the manufacturers | 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: Three (3) 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 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 provided 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           | NR               |
|        | 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 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      | #3(See note (2)) |

Abbreviation: P = Pass; NA = Not Applicable; NR = Not Requested by Applicant

Note: All test items were subcontracted items



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Test data:

#### 5.1.2 Lens requirements - Optical power:

| Optical power                       | Left ocular | Right ocular | Optical class |
|-------------------------------------|-------------|--------------|---------------|
| Spherical power (m <sup>-1</sup> )  | -0.04       | 0.00         | Class 1       |
| Astigmatic power (m <sup>-1</sup> ) | 0.00        | 0.08         |               |

| Prismatic power difference (cm/m) | Horizontal | Vertical | Base out |
|-----------------------------------|------------|----------|----------|
|                                   | 0.45       | 0.00     | Class 1  |

Requirement:

| Optical Class | Spherical Power (m <sup>-1</sup> ) | Astigmatic power (m <sup>-1</sup> ) | 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                         | Left ocular (%) | Right ocular (%) | Filter category |
|-------------------------------|-----------------|------------------|-----------------|
| 380 - 780nm (τ <sub>v</sub> ) | 16.35           | 16.76            | S3              |

For ultraviolet spectral range:

| Range                            | Maximum transmittance (%) |              | Requirement (%)                 |                                 |
|----------------------------------|---------------------------|--------------|---------------------------------|---------------------------------|
|                                  | Left ocular               | Right ocular | Left                            | Right                           |
| 280 – 315nm (UVB)                | 0.00                      | 0.00         | ≤ 0.03 τ <sub>v</sub><br>(0.49) | ≤ 0.03 τ <sub>v</sub><br>(0.50) |
| 315 – 350nm (UVA)                | 0.00                      | 0.00         | ≤ 0.15 τ <sub>v</sub><br>(2.45) | ≤ 0.15 τ <sub>v</sub><br>(2.51) |
| 315 – 380nm (τ <sub>SUVA</sub> ) | 0.00                      | 0.00         | ≤ 0.15 τ <sub>v</sub><br>(2.45) | ≤ 0.15 τ <sub>v</sub><br>(2.51) |



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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 $\tau_{S\text{UVA}}$ | 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              |  | 0.15 $\tau_v$       | 0.15 $\tau_v$   | 18.0   | 43.0 |
| S3              |  |                     |   | 8.0  | 18.0 |
| S4              |  |                     |   | 3.0  | 8.0  |

#### Maximum reduced luminance coefficient

| Maximum reduced luminance coefficient ( $\text{cd}/\text{m}^2$ )/lx |              | Class   | Requirement   |
|---|--------------|---------|---|
| Left ocular   | Right ocular |         |   |
| 0.49  | 0.24         | Class 1 | Diffusion of light (maximum):<br>- Class 1: 1.0 ( $\text{cd}/\text{m}^2$ )/lx<br>- Class 2: 2.0 ( $\text{cd}/\text{m}^2$ )/lx |

#### Resistance to ultraviolet radiation:

| Relative change in the luminous transmittance (%) |              | Requirement   |
|---|--------------|---|
| Left ocular                                       | Right ocular |   |
| +1.3  | +0.7         | $\pm 5\%$ for filters of category S0<br>$\pm 10\%$ for filters of category S1<br>$\pm 20\%$ for filters of all other categories |

| Maximum reduced luminance coefficient ( $\text{cd}/\text{m}^2$ )/lx |              | Class   | Requirement   |
|---|--------------|---------|---|
| Left ocular   | Right ocular |         |   |
| 0.62  | 0.70         | Class 1 | Diffusion of light (maximum):<br>- Class 1: 1.0 ( $\text{cd}/\text{m}^2$ )/lx<br>- Class 2: 2.0 ( $\text{cd}/\text{m}^2$ )/lx |



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#### 5.6.2 Resistance to fogging of oculars

|                                      |                         |      |                     |
|--------------------------------------|-------------------------|------|---------------------|
| Time of remain free from fogging (s) | Sample 3 - Left ocular  | > 30 | Requirement<br>≥ 30 |
|                                      | Sample 3 - Right ocular | > 30 |                     |

#### 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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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. This decision rule only applies to the numeric test results.*

*The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.*

