

Test Report

Number: SZHH01738820

Applicant: SHENZHEN ALLWELL SPORTS PRODUCTS
MANUFACTURING CO.,LTD.
NO.3, SHANZHUANG ROAD, XIKENG VILLAGE,
YUANSHAN STREET, LONGGANG DISTRICT,
SHENZHEN, CHINA

Date: Dec 07, 2022

Attn: ANITA LIU

Sample Description:

Seven (7) pieces of submitted sample said to be :

Item Name : **Swimming Goggle**
Reference No. : G8021(88EC)
Manufacturer : Shenzhen Allwell Sports Products Manufacturing Co.,Ltd.
Buyer : Schreuders Sport International B.V.
Country of Origin : China
Country of Destination : The Netherlands
Date Sample Received : Oct 10, 2022
Testing Period : Oct 10, 2022 ~ Dec 05, 2022



Tests conducted:

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



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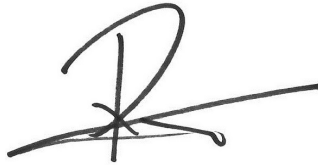
Conclusion:

Tested sample
Submitted samples

Requirement
ISO 18527-3:2020 Eye and face protection for sports use — Part 3:
Requirements and test methods for eyewear intended to be used for
surface swimming
Excluding:
- Clause 4.1 - Physiological compatibility

Result
Pass

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager



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1 Requirements for Swimming Eyewear

Test standard: ISO 18527-3: 2020 Eye and face protection for sports use — Part 3: Requirements and test methods for eyewear intended to be used for surface swimming.

Number of samples tested: Seven (7) pairs.

Note:

- (1) The submitted eyewear was declared by applicant for adult use. and the reference head form was 1-M.
- (2) **Physiological compatibility**
Eyewear shall be designed and manufactured in such a way that when used under the conditions and for the purposes intended, they will not compromise the health or safety of the wearer. The risks posed by substances leaking or evaporating from the eyewear that can come into prolonged contact with the wearer shall be reduced by the manufacturer to within the limits of any applicable regulatory requirement.

Special attention shall be given to substances which are allergenic, carcinogenic, mutagenic or toxic to reproduction.

Substances recommended for cleaning, maintenance or disinfection shall be known to be unlikely to have any adverse effect upon the wearer, when applied in accordance with the instructions given in the information to be supplied by the manufacturer.

Manufacturers/suppliers shall perform an appropriate risk analysis on potentially harmful substances contained in the eyewear that, when the eyewear is used under the conditions and for the purposes intended, the health (and safety) of the wearer shall not be compromised.

- (3) No final packaging but artwork was provided for reviewed, and the height of the symbol was not verified.

Clause	Requirement	Result
4	General requirements for eyewear	
4.1	Physiological compatibility	Note (2)
4.2	Construction and adjustment	P
4.3	Cleaning and/or disinfection	P
4.4	Lens material and surface quality	P
4.6	Resistance to corrosion	NA
4.7	Retention by headband (sit and fit)	P
5	Transmittance of the lenses	
5.2	Transmittance and filter categories	P
5.3	General transmittance requirements	
5.3.1	Uniformity of luminous transmittance and transmittance matching	P
5.3.2	Variations due to thickness variations	NA
5.4	Special transmittance requirements	
5.4.1	Photochromic lenses	NA
5.4.2	Polarizing lenses	NA
5.5	Claimed solar absorption/transmittance properties (optional)	
5.5.2	Solar blue-light absorption/transmittance	NA (No claim)
5.5.3	Solar UV absorption/transmittance	



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Clause	Requirement	Result
5.3.3 a)	Solar UV absorption	P
5.5.4	Antireflective coated lenses (optional)	NA (No claim)
5.5.5	Reduced reflection coated lenses (optional)	NA (No claim)
6	Scattered light	P
7	Refractive power and prismatic power	
7.1	Non-prescription nominally plano or afocal lenses	
7.1.1	Refractive power	P
7.1.2	Spatial deviation	NA
7.1.3	Prism imbalance	P
7.2	Non-prescription mass-produced powered lenses	NA
7.3	Prescription lenses	
7.3.1	Spherical and cylindrical power	NA
7.3.2	Prismatic power of unmounted lenses	NA
7.3.3	Prism imbalance for mounted prescription	NA
8	Mechanical strength	P
9	Other requirements for lenses	
9.1	Minimum optical aperture	
9.1.1	Recreational and competitive use	P
9.1.2	Specialist competitive use (optional)	NA
*9.2	Field of view	P
9.3	Temporal flange lenses	NA
9.4	Resistance to fogging (optional)	NA (No claim)
10	Other requirements	
*10.1	Leakage	P
10.2	Compressive strength of eyewear	P
10.3	Adhesion of water seal to eyecup	P
10.4	Headband	
10.4.1	Adjustment	P
10.4.2	Resistance to slipping	P
10.4.3	Resistance to breaking	P
10.5	Nosebridge strap	NA
12	Labelling and information to be supplied by the manufacturer	
12.1	Complete eyewear	P
12.2	Mandatory marking on swimming eyewear	P
12.3	Information to be supplied by the manufacturer with each eyewear	P (See note (3))
12.4	Additional information to be available from the manufacturer	P

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



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Test data:

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Tint category
380 - 780nm ($\tau_{v D65}$)	85.73	88.29	SW0

Range	Measured value (%)		Requirement (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (τ_{SUVB})	0.00	0.00	$\leq 0.05 \tau_{v D65}$ (4.29)	$\leq 0.05 \tau_{v D65}$ (4.41)
315 - 380nm (τ_{SUVA})	0.00	0.00	$\leq 0.50 \tau_{v D65}$ (42.87)	$\leq 0.50 \tau_{v D65}$ (44.15)
380 - 400nm ($\tau_{m380-400}$)	0.01	0.01	$\leq 0.75 \tau_{v D65}$ (64.30)	$\leq 0.75 \tau_{v D65}$ (66.22)

Requirement: (Table 1)

Tint category	Wavelength range from 280 nm to 400 nm			Visible spectral range
	Maximum solar UV-B transmittance τ_{SUVB} 280 nm $\leq \lambda \leq$ 315 nm	Maximum solar UV-A transmittance τ_{SUVA} 315 nm $\leq \lambda \leq$ 380 nm	Mean 380 nm to 400 nm spectral transmittance $\tau_{m380-400}$ 380 nm $\leq \lambda \leq$ 400 nm	Luminous transmittance $\tau_{v D65}$ 380 nm $\leq \lambda \leq$ 780 nm
SW0	0.05 $\tau_{v D65}$	0.50 $\tau_{v D65}$	0.75 $\tau_{v D65}$	$\tau_{v D65} > 80\%$
SW1				$43\% < \tau_{v D65} \leq 80\%$
SW2		0.25 $\tau_{v D65}$	0.50 $\tau_{v D65}$	$18\% < \tau_{v D65} \leq 43\%$
SW3				$8\% < \tau_{v D65} \leq 18\%$
SW4				$3\% < \tau_{v D65} \leq 8\%$

Note Some national requirements may stipulate a different requirement for long wavelength limit of UV-A.

5.3.1 Uniformity of luminous transmittance and transmittance matching

Uniformity	Left ocular (%)	Right ocular (%)	Requirement (%)
Variation within lens [relative to higher value]	2.75	3.63	≤ 15
Difference between lenses [relative to lighter filter]	2.90		≤ 15

5.5.3 a) Solar UV absorption

Range	Maximum transmittance (%)		Limit (%)
	Left ocular (%)	Right ocular (%)	
280 - 380nm (τ_{SUV})	0.00	0.00	$\leq 0.5\%$ (Claimed: 100% UV protection)

6 Scattered light

Scattered light	Left ocular (%)	Right ocular (%)	Requirement (%)
	0.67	0.26	≤ 3



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7.1.1 Refractive power

Optical power	Left ocular	Right ocular	Requirement (m ⁻¹)
Spherical power (m ⁻¹)	-0.09	-0.04	± 0.18
Astigmatic power (m ⁻¹)	0.00	0.03	≤ 0.18
Difference of spherical power between left and right filters (m ⁻¹)	0.05		≤ 0.25

7.1.3 Prism imbalance

Prismatic power difference (cm/m)			Requirement (cm/m)
Horizontal	Base out	0.359	≤ 1.00
	Base in	--	≤ 0.25
Vertical		0.063	≤ 0.25

9.2 Field of view

Field of view	Left ocular (°)	Right ocular (°)	Requirement (°)
Temporal	68	68	≥ 60
Nasal	>35	>35	≥ 30
Superior	30	30	≥ 30
Inferior	>35	>35	≥ 30

10.1 Leakage

Leakage	Left (Kpa)	Right (Kpa)	Requirement (Kpa)
Pressure rose in 10s	0.1	0.1	≤ 0.3
Pressure rose in 20s	0.2	0.1	≤ 3.0

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.

