

RAPPORTO DI PROVA / TEST REPORT

No. PPE-25-0364-01-00	Data di emissione/Issue Date 12/01/2026	Rif. Ord. MTIC-IT-PPE-00126-25-0460
Richiedente <i>Applicant</i>	CANGNAN COUNTY QIWEI CRAFT CO.LTD No.115, JinChengNan Rd,Jinxiang Town, Cangnan County,Wenzhou City,Zhejiang Province,China	
Fabbricante <i>Manufacturer</i>	CANGNAN COUNTY QIWEI CRAFT CO.LTD No.115, JinChengNan Rd,Jinxiang Town, Cangnan County,Wenzhou City,Zhejiang Province,China	
Modello <i>Type</i>	Paper Solar Eclipse Glasses QW-SOZ1; QW-SOZ2; QW-SOZ3; QW-SOZ4; QW-SOZ5	
Norma di riferimento <i>Reference standard</i>	EN ISO 12312-2:2015: Protezione degli occhi e del viso - Occhiali da sole e occhiali connessi - Parte 2: Filtri per l'osservazione diretta del sole / <i>Eye and face protection - Sunglasses and related eyewear - Part 2: Filters for direct observation of the sun</i>	
Classificazione / Designazione <i>Classification / Designation</i>	NA	
Prove richieste <i>Tests requested</i>	☐ Complete <i>Full tests</i>	☒ Parziali: <i>Partial:</i> \$4.1; \$5 \$1.4 Reg. UE 2016/425
Periodo di prova <i>Test period</i>	2025-10-23 - 2026-01-12	

I risultati dei test presentati in questo rapporto si riferiscono solo ai campioni testati, così come ricevuti. Questo rapporto non deve essere riprodotto, se non integralmente, senza l'approvazione scritta del Laboratorio di prova. L'autenticità di questo Rapporto di prova e del suo contenuto può essere verificata contattando il Laboratorio di prova, responsabile di questo Rapporto di prova / *The test results presented in this report refer only to the item tested, as received. This report must not be reproduced, except in full, without the written approval of the issuing Test Laboratory. The authenticity of this Test Report and its contents may be verified by contacting the Test Laboratory, responsible for this Test Report.*

Esito complessivo <i>Overall outcome</i>	☒ CONFORME <i>COMPLIES</i>	☐ NON CONFORME <i>DOES NOT COMPLY</i>
Laboratorio di prova <i>Testing Laboratory</i>	MTIC Intercert S.r.l.	
Luogo di prova <i>Testing location/address</i>	Via Moscova, 11, 20017, RHO, MI, IT	
Luogo di prova 2 <i>Testing location/address 2</i>	Via G. Prati, 87 25086 Rezzato (BS)	
Tecnico di Laboratorio <i>Laboratory technician</i>	Ilina Thani	
Approvato da <i>Approved by</i>	Rosa Tridico	

F-TL-DPI-10-04 it-en - Rev.0.1	19/11/2025	1/12
MTIC INTERCERT S.r.l. - Via Moscova, 11 - 20017 RHO (MI) ITALY - www.mtic-group.org - info@mtic-group.org		
Le informazioni contenute in questo Documento sono proprietà di MTIC INTERCERT S.r.l. e non possono essere copiate o comunicate a terze parti o utilizzate per scopi diversi da quelli per i quali viene fornito senza il consenso scritto di MTIC INTERCERT S.r.l. <i>The information in this Document is the property of MTIC INTERCERT S.r.l. and may not be copied or communicated to third parties or used for any purpose other than those for which it is supplied without the express written consent of MTIC INTERCERT S.r.l.</i>		

RIEPILOGO DEL RAPPORTO / SUMMARY OF REPORT

§	EN ISO 12312-2:2015	Esito Outcome
4	Requisiti e metodi di prova associate / <i>Requirements and associated test methods</i>	
4.1	Trasmittanza / <i>Transmittance</i>	PASS
4.1.2	Uniformità della trasmittanza luminosa / <i>Uniformity of luminous transmittance</i>	N / E
4.2	Materiali e qualità della superficie / <i>Material and surface quality</i>	N / E
4.3	Montaggio / <i>Mounting</i>	N / E
5	Etichettatura / <i>Labelling</i>	PASS
§	REOLAMENTO / REGULATION (EU) 2016/425 ALLEGATO / ANNEX II	Esito Outcome
1.4	Istruzioni e informazioni del fabbricante / <i>Manufacturer's instructions and information</i>	PASS

LEGENDA / KEY

N / R	Non Richiesto / <i>Not Requested</i>
N / A	Non Applicabile / <i>Not Applicable</i>
N / E	Non Eseguito / <i>Not Performed</i>
PASS	Requisiti soddisfatti / <i>Requirements satisfied</i>
FAIL	Requisiti NON soddisfatti / <i>Requirements NOT satisfied</i>
Parz	Conformità parziale: prove non sufficienti per dichiarare la conformità ai requisiti / <i>Partial conformity: tests not sufficient in order to declare the conformity to the requirements</i>

CAMPIONATURA / SAMPLING

Modello <i>Model</i>	Quantità <i>Quantity</i>	Data ricezione campioni <i>Specimens received</i>	ID campioni MTIC <i>Specimens' ID MTIC</i>
Paper Solar Eclipse Glasses QW-SOZ1; QW-SOZ2; QW-SOZ3; QW-SOZ4; QW-SOZ5	21	30/09/2025	25-0364_06⇒25

Campionatura effettuata da
Sampling performed by MANUFACTURER

I campioni possono essere scelti a caso all'interno della campionatura consegnata / *The specimens may be chosen random through the sampling delivered.*
L'identificativo dei campioni non è una numerazione progressiva / *The ID of specimens is not a progressive number.*
Note I campioni riportati in tabella ma non citati nel Rapporto di prova possono non essere stati
Notes utilizzati / *The specimens identified in the table above, but not mentioned in the test Report may not have been used.*
Se non diversamente specificato, i campioni sono sottoposti a prova come ricevuti da MTIC InterCert S.r.l. / *If not otherwise specified, the specimens are submitted to test as received by MTIC InterCert S.r.l.*

NOTE / NOTES

Le prove di cui al punto 4.1 e 4.1.2 sono state eseguite da personale tecnico di MTIC InterCert S.r.l. presso il laboratorio di Univet S.r.l. sita in via G. Prati 87 25086 Rezzato (BS) / *The tests referred to in points 4.1 and 4.1.2 were carried out by technical staff from MTIC InterCert S.r.l. at the Univet S.e.l. laboratory located at Via G. Prati 87, 25086 Rezzato (BS).*

INDICE DELLE REVISIONI / REVISION INDEX

Rev.	Data / Date	Motivo / Motivation
00	2025-10-27	Prima emissione / <i>First issue</i>
01	2026-01-12	Seconda emissione / <i>second issue</i> (eliminazione variante / <i>deleted variant</i> Solar Eclipse Glasses – Plastic)

NOTE / NOTES

Questo documento è valido in ultima revisione che annulla e sostituisce la precedente

This document is valid in last revision that deletes and replaces the previous one

DESIGNAZIONE E DESCRIZIONE VARIANTI / DESIGNATION AND DESCRIPTION VARIANTS**MOD. PAPER SOLAR ECLIPSE GLASSES - QW-SOZ1**

Cartoncino, PET con pellicola laminata in alluminio / *Paper card, PET with aluminium laminated film*

Protezione dalle intense radiazioni UV/IR visibili e nocive durante l'osservazione dell'eclissi / *Protection from intense visible and harmful UV/IR radiation during eclipse observation*

Solo modifiche di design, vedere le immagini illustrative a pagina 12 / *Only design changes, see illustrative pictures on page 12*

MOD. PAPER SOLAR ECLIPSE GLASSES - QW-SOZ2

Cartoncino, PET con pellicola laminata in alluminio / *Paper card, PET with aluminium laminated film*

Protezione dalle intense radiazioni UV/IR visibili e nocive durante l'osservazione dell'eclissi / *Protection from intense visible and harmful UV/IR radiation during eclipse observation*

Solo modifiche di design, vedere le immagini illustrative a pagina 12 / *Only design changes, see illustrative pictures on page 12*

MOD. PAPER SOLAR ECLIPSE GLASSES - QW-SOZ3

Cartoncino, PET con pellicola laminata in alluminio / *Paper card, PET with aluminium laminated film*

Protezione dalle intense radiazioni UV/IR visibili e nocive durante l'osservazione dell'eclissi / *Protection from intense visible and harmful UV/IR radiation during eclipse observation*

Solo modifiche di design, vedere le immagini illustrative a pagina 12 / *Only design changes, see illustrative pictures on page 12*

MOD. PAPER SOLAR ECLIPSE GLASSES - QW-SOZ4

Cartoncino, PET con pellicola laminata in alluminio / *Paper card, PET with aluminium laminated film*

Protezione dalle intense radiazioni UV/IR visibili e nocive durante l'osservazione dell'eclissi / *Protection from intense visible and harmful UV/IR radiation during eclipse observation*

Solo modifiche di design, vedere le immagini illustrative a pagina 12 / *Only design changes, see illustrative pictures on page 12*

MOD. PAPER SOLAR ECLIPSE GLASSES - QW-SOZ5

Cartoncino, PET con pellicola laminata in alluminio / *Paper card, PET with aluminium laminated film*

Protezione dalle intense radiazioni UV/IR visibili e nocive durante l'osservazione dell'eclissi / *Protection from intense visible and harmful UV/IR radiation during eclipse observation*

Solo modifiche di design, vedere le immagini illustrative a pagina 12 / *Only design changes, see illustrative pictures on page 12*

RISULTATI / RESULTS**TRASMITTANZA****TRANSMITTANCE**

Requisiti	§ 4.1 - EN ISO 12312-2:2015
Requirements	
Metodi di prova	§7.1.1, 7.1.2, 7.3.2, 7.3.3, 7.5 – ISO 12311:2013
Test methods	
Deviazioni/note	/
Deviations/notes	

Descrizione**Description**

I requisiti di trasmittanza dei filtri per l'osservazione diretta del sole sono riportati nella Tabella 1. I valori di trasmittanza devono essere misurati o calcolati al centro del filtro per l'incidenza normale. / The transmittance requirements of filters for the direct observation of the sun are given in Table 1. Transmittance values shall be measured or calculated at the boxed centre of the filter for normal incidence

Maximum luminous transmittance (τ_V)	0,003 2 %
Minimum luminous transmittance (τ_V)	0,000 061 %
Maximum solar UVB transmittance (τ_{SUVB})	τ_V
Maximum solar UVA transmittance (τ_{SUVA})	τ_V
Maximum solar infrared transmittance (τ_{SIR})	3 %

Campione / Sample ID	25-0364-06 Sinistra / Left	25-0364-06 Destra / Right	ESITO OUTCOME
Trasmittanza Luminosa Luminous Transmittance (τ_V) %	0.0014%	0.0013%	PASS
Trasmittanza max solare UVB Max solar UVB transmittance (τ_{SUVB}) %	0.0000%	0.0000%	PASS
Trasmittanza max solare UVA Max solar UVA transmittance (τ_{SUVA}) %	0.0000%	0.0000%	PASS
Trasmittanza max dell'IR solare Max solar IR transmittance (τ_{SIR}) %	0.33%	0.33%	PASS
Esito Outcome	PASS -		
Note Notes	Strumento/Instrument : Cary 5000 n. inv. 029 n. matr. MY16120001 Taratura/Calibration 08.09.2025 scad./exp. 07.12.2025		
Note Notes	Dati desunti dal rapporto di prova n° PPE-25-0364-00-00 emesso in data 27/10/2025 da MTIC Intercert S.r.l. / Data taken from test report no. PPE-25-0364-00-00 issued on 27/10/2025 by MTIC Intercert S.r.l.		

UNIFORMITÀ DELLA TRASMITTANZA LUMINOSA

N / E

UNIFORMITY OF LUMINOUS TRANSMITTANCE

Requisiti § 4.1.2 - EN ISO 12312-2.2015
Requirements
Metodi di prova /
Test methods
Deviazioni/note /
Deviations/notes

MATERIALI E QUALITÀ DELLA SUPERFICIE

N / E

MATERIAL AND SURFACE QUALITY

Requisiti § 4.2 - EN ISO 12312-2.2015
Requirements
Metodi di prova § 4.2.2 - EN ISO 12312-2.2015
Test methods
Deviazioni/note /
Deviations/notes

MONTAGGIO

N / E

MOUNTING

Requisiti § 4.3 - EN ISO 12312-2.2015
Requirements
Metodi di prova /
Test methods
Deviazioni/note /
Deviations/notes

ETICHETTATURA

LABELLING

Requisiti <i>Requirements</i>	§ 5 - EN ISO 12312-2:2015
Metodi di prova <i>Test methods</i>	/
Deviazioni/note <i>Deviations/notes</i>	/

§	Descrizione <i>Description</i>
Il filtro e/o il suo imballaggio devono riportare le seguenti informazioni nella lingua o nelle lingue del paese in cui il prodotto sarà messo in vendita: / <i>The filter and/or its packaging shall show the following information in the language(s) of the country where the product is to be offered for sale:</i>	
a)	nome e indirizzo del fabbricante del prodotto / <i>name and address of manufacturer of the product</i> Esito <i>Outcome</i> PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> Mfg.By: Cangnan County Qiwei Craft Co., Ltd, No.8, Jinting Rd, Jinxiang Town, Wenzhou, Zhejiang, China, Email: manager@qiweisolareclipse.com www.qiweisolareclipse.com
b)	istruzioni per osservare il sole o un'eclissi solare / <i>instructions for use in looking at the sun or a solar eclipse</i> Esito <i>Outcome</i> PASS Valutato su base documentale / <i>Evaluated on documentary basis</i>  Important Safety Warnings: Read Before Use! Looking at the sun without proper eye protection causes permanent eye damage. Inspect for damage before each use. Do not use if damaged. Never use with optical instruments (e.g. binoculars). Use by children requires adult supervision.
c)	avvertenze che la visione del sole senza un filtro appropriato può provocare lesioni permanenti agli occhi / <i>warnings that viewing the sun without an appropriate filter can result in permanent eye injury</i> ESEMPIO "La visione diretta del sole è pericolosa se non si prendono le dovute precauzioni. È essenziale indossare un'adeguata protezione degli occhi specificamente progettata per la visione del sole, in modo che nessuna radiazione diretta dal sole possa raggiungere l'occhio se non quella che passa attraverso il filtro." / <i>EXAMPLE "Direct viewing of the sun is dangerous if the proper precautions are not taken. Adequate eye protection specifically designed for viewing the sun is essential and shall be worn so that no direct radiation from the sun can reach the eye other than that passing through the filter."</i> Esito <i>Outcome</i> PASS Valutato su base documentale / <i>Evaluated on documentary basis</i>  Important Safety Warnings: Read Before Use! Looking at the sun without proper eye protection causes permanent eye damage. Inspect for damage before each use. Do not use if damaged. Never use with optical instruments (e.g. binoculars). Use by children requires adult supervision.
d)	Avvertenze che i filtri danneggiati o separati dai loro supporti devono essere scartati / <i>warnings that filters that are damaged or separated from their mountings should be discarded</i>

		Valutato su base documentale / <i>Evaluated on documentary basis</i>
	Esito <i>Outcome</i>	PASS  Important Safety Warnings: Read Before Use! Looking at the sun without proper eye protection causes permanent eye damage. Inspect for damage before each use. Do not use if damaged. Never use with optical instruments (e.g. binoculars). Use by children requires adult supervision.
e)	consigli per la conservazione, la pulizia e la manutenzione, a seconda dei casi / <i>advice on storage, cleaning, and maintenance, as appropriate</i>	
	Esito <i>Outcome</i>	Valutato su base documentale / <i>Evaluated on documentary basis</i> Cleaning and Storage Instructions for Paper Solar Eclipse Glasses: After use, gently wipe the lenses with a clean, soft, dry cloth. Avoid using alcohol, cleaners, or water to prevent damage to the filter film and to avoid scratching or deforming the lenses.
f)	scadenza di obsolescenza o periodo di obsolescenza, a seconda dei casi / <i>obsolescence deadline or period of obsolescence, as appropriate</i>	
	Esito <i>Outcome</i>	Valutato su base documentale / <i>Evaluated on documentary basis</i> Manufacture date: YYYY/MM To determine the 3-year lifespan, you must find the official Date of Manufacture.
Note <i>Notes</i>		

ESAME VISIVO - ISTRUZIONI PER L'USO

VISUAL EXAMINATION - INFORMATION TO BE SUPPLIED BY THE MANUFACTURER

Requisiti <i>Requirements</i>	§ 1.4 - (EU) 2016/425 Regulation
Metodi di prova <i>Test methods</i>	/
Deviazioni/note <i>Deviations/notes</i>	/

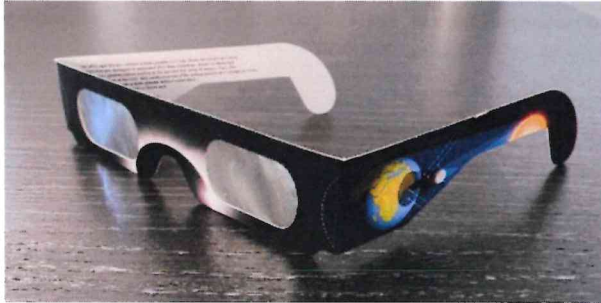
§	Descrizione <i>Description</i>	
1.4	Esito <i>Outcome</i>	nome e indirizzo del fabbricante / <i>name and address of the manufacturer</i> Valutato su base documentale / <i>Evaluated on documentary basis</i> Manufacturer Name: Cangnan County Qiwei Craft Co., Ltd. Address: No. 115, JinChengNan Rd, Jinxiang Town, Cangnan County, Wenzhou City, Zhejiang Province, China Email: manager@qiweisolareclipse.com EU Authorized Representative: EUREP ENV S.L. Address: Paseo de la Castellana No43, 28046 Madrid, Spain Contact: Phone: +34 678 70 70 83 Email: manager@qiweisolareclipse.com
a		le istruzioni di magazzinaggio, di impiego, di pulizia, di manutenzione, di revisione e di disinfezione. I prodotti per la pulizia, la manutenzione o la disinfezione consigliati dai fabbricanti non devono avere nell'ambito delle loro modalità di impiego alcun effetto nocivo per i DPI o per l'utilizzatore / <i>instructions for storage, use, cleaning, maintenance, servicing and disinfection. Cleaning,</i>

F-TL-DPI-10-04 it-en - Rev.0.1	19/11/2025	9/12
MTIC INTERCERT S.r.l. - Via Moscova, 11 - 20017 RHO (MI) ITALY - www.mtic-group.org - info@mtic-group.org Le informazioni contenute in questo Documento sono proprietà di MTIC INTERCERT S.r.l. e non possono essere copiate o comunicate a terze parti o utilizzate per scopi diversi da quelli per i quali viene fornito senza il consenso scritto di MTIC INTERCERT S.r.l. <i>The information in this Document are the property of MTIC INTERCERT S.r.l. and may not be copied or communicated to third parties or used for any purpose other than those for which it is supplied without the express written consent of MTIC INTERCERT S.r.l.</i>		

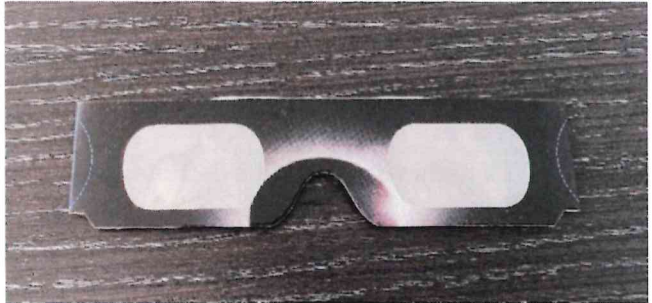
	<i>maintenance or disinfectant products recommended by manufacturers must have no adverse effect on the PPE or the user when applied in accordance with the relevant instructions</i> Valutato su base documentale / <i>Evaluated on documentary basis</i> Storage & Cleaning: Esito Outcome PASS 1. Store in a dry, protective case to prevent scratches. 2. Keep within a temperature range of -10°C to +60°C. 3. To clean, gently wipe the filter lenses with a soft, dry, non-abrasive cloth ONLY. DO NOT use liquids.
b	<i>le prestazioni registrate durante le pertinenti prove tecniche effettuate per verificare i livelli o le classi di protezione dei DPI / performance as recorded during relevant technical tests to check the levels or classes of protection provided by the PPE</i> Esito Outcome N / A La norma di riferimento non prevede livelli / <i>the reference standard dos not specify levels</i>
c	<i>se del caso, gli accessori che possono essere utilizzati con i DPI e le caratteristiche dei pezzi di ricambio appropriati / where applicable, accessories that may be used with the PPE and the characteristics of appropriate spare parts</i> Esito Outcome N / A Non sono previsti accessori / <i>No accessories are provided</i>
d	<i>se del caso, le classi di protezione adeguate a diversi livelli di rischio e i corrispondenti limiti di utilizzo / where applicable, the classes of protection appropriate to different levels of risk and the corresponding limits of use;</i> Esito Outcome N / A La norma di riferimento non prevede classificazioni / <i>the reference standard dos not specify classifications</i>
e	<i>laddove applicabile, il mese e l'anno o il termine di scadenza dei DPI o di alcuni dei loro componenti / where applicable, the month and year or period of obsolescence of the PPE or of certain of its components</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> 3 anni / <i>years</i>
f	<i>se del caso, il tipo di imballaggio appropriato per il trasporto / where applicable, the type of packaging suitable for transport</i> Esito Outcome PASS Nessun imballaggio particolare specificato / <i>no particular packaging is specified</i> Storage & Cleaning: 1. Store in a dry, protective case to prevent scratches.
g	<i>dettagli significato delle eventuali marcature / the significance of any markings</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i>

	 MARKINGS (Refer to Illustration)  Conformity marking indicating this PPE meets essential health and safety requirements of EU Regulation 2016/425.  This symbol certifies compliance with the safety standard EN 12312-2:2015 ISO 12312-2:2015 for filters for direct observation of the sun.  Read the Instructions for Use before using this product.  This symbol indicates an important safety warning.
h	il rischio da cui il DPI è destinato a proteggere / <i>the risk against which the PPE is designed to protect</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> È progettato per proteggere l'utente da gravi lesioni agli occhi causate dall'osservazione diretta del sole / <i>It is designed to protect the user from serious eye injury resulting from direct observation of the sun</i>
i	il riferimento al presente regolamento e, se del caso, i riferimenti ad altre normative di armonizzazione dell'Unione / <i>the reference to this Regulation and, where applicable, the references to other Union harmonisation legislation</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> Il Paper Solar Eclipse è conforme al Regolamento (UE) 2016/425 e alla norma armonizzata EN ISO 12312-2:2015 / <i>The Paper Solar Eclipse is compliant with Regulation (EU) 2016/425 and harmonized standard EN ISO 12312-2:2015</i>
j	il nome, l'indirizzo e il numero di identificazione dell'organismo notificato o degli organismi notificati coinvolti nella valutazione della conformità dei DPI / <i>the name, address and identification number of the notified body or bodies involved in the conformity assessment of the PPE</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i>  NOTIFIED BODY Notified Body: MTIC Intercert S.r.l. (NB 0068) Address: Via Moscova, 11 I-20017 Rho (MI)
k	i riferimenti alla o alle pertinenti norme armonizzate utilizzate, compresa la data della o delle norme, o i riferimenti ad altre specifiche tecniche utilizzate / <i>references to the relevant harmonised standard(s) used, including the date of the standard(s), or references to the other technical specifications used</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> Vedi punto i sopra / <i>See point i above</i>
l	l'indirizzo internet dove è possibile accedere alla dichiarazione di conformità UE / <i>the internet address where the EU declaration of conformity can be accessed</i> Esito Outcome PASS Valutato su base documentale / <i>Evaluated on documentary basis</i> 3. EU Declaration of Conformity (DoC): This product is in conformity with the relevant Union harmonisation legislation. A copy of the full EU Declaration of Conformity can be accessed at the following internet address: www.qiweisolareclipse.com
Note Notes	

DOCUMENTAZIONE FOTOGRAFICA
PHOTOGRAPHIC DOCUMENTATION



Paper Solar Eclipse Glasses



Paper Solar Eclipse Glasses

FINE DEL RAPPORTO / END OF REPORT

Issued to: Solar Eclipse International
4675 Steeles Ave., Unit 1E19
Toronto, Ontario
Canada

Date: 06 April 2023
Report: T17852-01-2
Issue: 1
Page: 1 of 4

Manufacturer: Cangnan County Qiwei Craft Co., Ltd.
No. 115 JinChengNan Rd
Jinxiang Town, Cangnan County
Wenzhou City, Zhejiang Province
China

Objective:

Contract testing to ISO 12312-2:2015(E) "Eye and face protection — Sunglasses and related eyewear — Part 2: Filters for direct observation of the sun".

Samples:

Paper Solar Eclipse Glasses

Part Number	Quantity	Sample ID
SEI-23001	4	2A

Date(s) submitted: 06 March 2023

Procedures:

Testing protocols in accord with good laboratory practice were employed for all tests.

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Assessment Summary:

Date(s) tested: 07 through 08 March 2023

ISO 12312-2:2015(E) Requirements	Compliant	Non-Compliant
4 Requirements and associated test methods		
4.1 Transmittance		
4.1.1 General	X	
4.1.2 Uniformity of luminous transmittance	X	
4.2 Material and surface quality -filters	X	
4.3 Mounting		
4.3.1 General	X	
4.3.2 Dimensions	X	
4.3.3 Material quality - frames	X	
5 Labelling	X	

Samples as assessed meet the requirements of ISO 12312-2:2015(E).

Issued to: Solar Eclipse International
4675 Steeles Ave., Unit 1E19
Toronto, Ontario
Canada

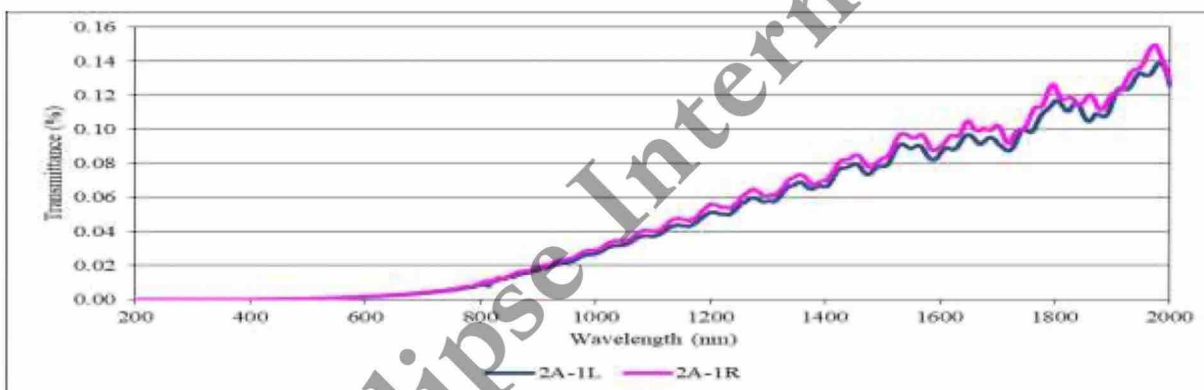
Date: 06 April 2023
Report: T17852-01-2
Issue: 1
Page: 2 of 4

Manufacturer: Cangnan County Qiwei Craft Co., Ltd.
No. 115 JinChengNan Rd
Jinxiang Town, Cangnan County
Wenzhou City, Zhejiang Province
China

Results:

4.1.1 Transmittance-General

Sample ID:	2A-1L	2A-2R	Requirement	Pass	Fail
Luminous-D65 (τ_v) (%)	0.001108	0.001252	0.000061 to 0.0032	X	
Max. solar UVB-280 to 315nm (τ_{SUBV}) (%)	<0.00001	<0.00001	$\leq \tau_v$	X	
Max. solar UVA-315 to 380nm (τ_{SUA}) (%)	<0.00001	<0.00001	$\leq \tau_v$	X	
Max. solar infrared-780 to 2000nm (τ_{SIR}) (%)	0.038	0.041	≤ 3	X	



4.1.2 Uniformity of luminous transmittance

Sample ID:	2A-1L	2A-1R	Requirement
Luminous-D65 (τ_v) (%)			
Maximum:	0.001490	0.001660	
Center:	0.001385	0.001600	
Minimum:	0.001385	0.001490	
Relative Difference (%):	7.05	10.2 ¹	$\leq 10\%$
Pass/Fail:	Pass		

¹Value passes based on ASTM E29 "Rounding Method" in which observed or calculated values are rounded to the nearest unit in the designated place of figures stated in the standard.

Issued to: Solar Eclipse International
4675 Steeles Ave., Unit 1E19
Toronto, Ontario
Canada

Date: 06 April 2023
Report: T17852-01-2
Issue: 1
Page: 3 of 4

Manufacturer: Cangnan County Qiwei Craft Co., Ltd.
No. 115 JinChengNan Rd
Jinxiang Town, Cangnan County
Wenzhou City, Zhejiang Province
China

4.2 Material and surface quality - filters; Result: Pass

Requirement: Except in a marginal area 5 mm wide, filters shall be free from defects likely to impair vision in use, such as bubbles, scratches, inclusions, dull spots, pitting, scouring, pocking, scaling, and undulations. Metal coated filter materials shall not exhibit more than one pinhole defect not greater than 200 µm in average diameter within any 5 mm diameter circular zone.

4.3.1 Mounting-General; Result: Pass

Requirement: If mounted, a filter shall be held securely so that it cannot be dislodged by normal handling or by gusts of wind.

4.3.2 Dimensions; Result: Pass

Requirement: The filter or filters and mounting assembly shall be of a size sufficient to cover both eyes of the user simultaneously and in no case shall have overall dimensions less than 115 mm in width and 35 mm in depth in the plane parallel to the facial plane. Spectacle shaped mountings may have a triangular cut-away area to accommodate the crest of the nose, not to exceed 15 mm in apical height and 35 mm width at the base and may have separate filters, one for each eye, provided that the overall dimensions are satisfied.

Note: Triangular cut-away only applies to cardboard spectacle shaped mountings.

4.3.3 Material quality - frames; Result: Pass

Requirement: The filter and mounting shall be free from roughness, sharp edges, projections, or other defects which could cause discomfort or injury during use. No part of the filter or mounting which is in contact with the wearer shall be made of materials which are known to cause any skin irritation.

5 Labelling; Result: Pass

The filter and/or its packaging shall show the following information in the language(s) of the country where the product is to be offered for sale:

- a) name and address of manufacturer of the product,
- b) instructions for use in looking at the sun or a solar eclipse,
- c) warnings that viewing the sun without an appropriate filter can result in permanent eye injury,
- d) warnings that filters that are damaged or separated from their mountings should be discarded,
- e) advice on storage, cleaning, and maintenance, as appropriate,
- f) obsolescence deadline or period of obsolescence, as appropriate,

Issued to: Solar Eclipse International
4675 Steeles Ave., Unit 1E19
Toronto, Ontario
Canada

Date: 06 April 2023
Report: T17852-01-2
Issue: 1
Page: 4 of 4

Manufacturer: Cangnan County Qiwei Craft Co., Ltd.
No. 115 JinChengNan Rd
Jinxiang Town, Cangnan County
Wenzhou City, Zhejiang Province
China

Sample Photograph(s):



Estimates of Uncertainties:

ISO 12311:2013(E) Test Method	Estimated Uncertainty
7.1.1 Measurement of spectral transmittance	10% Relative

Estimated uncertainties have been calculate in accordance with the principles of ISO/IEC Guide 98-3:2008, Uncertainty of measurement-Part 3: Guide to the expression of uncertainty in measurement (GUM:1995).

Estimated uncertainties have a 95% confidence level.

A coverage factor (k) of 2.0 was used.

Estimated Uncertainties were not taken into consideration for determination of pass/fail.