



CONSUMER PRODUCTS SERVICES DIVISION

FUZHOU CHUTIAN ELECTRONICS CO., LTD

Technical Report: (9120)297-0363
Date Received: JUL. 24, 2020

OCT. 23, 2020
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FUZHOU CHUTIAN ELECTRONICS CO., LTD
NO.31 KANGDA ROAD, OPTOELECTRONIC PARK, FUQING CITY,
FUJIAN PROVINCE, CHINA

Sample Name:	FACE SHIELD	Sample Quantity:	8 PAIRS
Sample Description:	FACE SHIELD		
Producer:	FUZHOU CHUTIAN ELECTRONICS CO., LTD		
Manufacturer:	N/A	Style No(s):	S-01
Buyer:	N/A	Trademark:	CTLS
Labeled Age Grade:	N/A	PO No.:	N/A
Appropriate Age Grade:	N/A	Ref #:	N/A
Client Specified Age Grade:	N/A	Country of Origin:	CHINA
Grade:			
Tested Age Grade:	N/A	Assortment No.:	N/A
UPC Code:	N/A	Country of Destination:	N/A

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- ANSI/ISEA Z87.1-2015 American National Standard Occupational and Educational Personal Eye and Face Protection Devices

Bureau Veritas Consumer Products Services
Fuzhou Chutian Electronics Co., Ltd - Nanjing
Branch
6th Floor, 31K C.A.S. Road, Fuzhou
CENTER
55# KANGDA ROAD, FUQING
NANJING, CHINA
Tel: 025-52761212
520761212
www.bureauveritas.cn/cps

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RESULTS:

NOTE:

1. The test conclusion of this report is only drawn on the tested items entrusted by the client . It doesn't mean that the untested items meet the requirements.

BVCPS (Shanghai) Nanjing branch contact information for this report

Technical Questions:

Nick Qi 025-52076002, E-mail: Nick.Qi@cn.bureauveritas.com

Concerns About Billing and General Inquires:

Rita Zhang 025-52076026, E-mail: Rita-Jm.Zhang@cn.bureauveritas.com

**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)
NANJING BRANCH**

LINDA LI
MANAGER (SOFTLINE&TOYS&ANALYTICAL DIVISION)



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RESULTS:

No.	Test Item	Standard Item	Requirement	Test Number (pairs)	Measurement Result	Comments
1.1	Optical quality	ANSI/ISE A Z87.1 5.1.1	When tested in accordance with Section 9.1, Protector lenses shall be free of striae, bubbles waves and other visible defects which would impair the wearer's vision.	1	Meet	Pass
1.2	Luminous transmittance T_v (%)	ANSI/ISE A Z87.1 5.1.2	When tested in accordance with Section 9.2, clear lenses shall have a luminous transmittance of not less than 85%	1	Right: 90.6 Left: 90.8	Pass
1.3	Haze-clear lenses only(%)	ANSI/ISE A Z87.1 5.1.3	When tested in accordance with Section 9.3, clear plano lenses shall not exhibit more than 3% haze.	1	Right: 0.49 Left: 0.27	Pass
1.4	Refractive power(D)	ANSI/ISE A Z87.1 5.1.4	No requirement	NR	NR	NR
	Astigmatism (D)		No requirement			
	Resolving power		Pattern 20			
	Prism (Δ)		$\leq 0.37\Delta$			
	Prism imbalance (Δ)		Vertical imbalance: $\leq 0.37\Delta$			
			Base in imbalance: $\leq 0.125\Delta$			
			Base out imbalance: $\leq 0.75\Delta$			
1.5	Drop ball impact resistance	ANSI/ISE A Z87.1 5.2.1	When tested in accordance with Section 9.6, the protector shall fail if any of the following occur when impacted by a 25.4 mm(1 in.) diameter steel ball when dropped from a height of 127 cm(50 in.): •lens (lens only) fractures	NR	NR	NR



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No.	Test Item	Standard Item	Requirement	Test Number (pairs)	Measurement Result	Comments
			•piece fully detached from the inner surface; •projectile penetrates the inner surface; •lens not retained.			
1.6	Ignition	ANSI/ISEA Z87.1 5.2.2	When tested in accordance with Section 9.7, protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.	1	Meet	Pass
1.7	Corrosion resistance of metal components	ANSI/ISEA Z87.1 5.2.3	When tested in accordance with Section 9.8, metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion and the protector can be worn as intended.	NA	NA	NA
1.8	Minimum coverage area	ANSI/ISEA Z87.1 5.2.4	The frames ,lens housings or carriers and lens(es) shall cover in plan view an area of not less than 40mm (1.57in.) in width and 33mm (1.30in.) in height (elliptical) in front of each eye, centered on the geometrical center of the lens.	1	Meet	Pass



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No.	Test Item	Standard Item	Requirement	Test Number (pairs)	Measurement Result	Comments
1.9	Markings	ANSI/ISE A Z87.1 5.3	Protector markings shall be placed in relatable proximity to each other on the product in the sequence specified below: •Manufacturer's marks or logos •Designation of standard(Z87 or Z87-2, for prescription devices) •Individual claims of compliance ·impact-rated marking(+) ·lens type ·use applications Manufacturer's marks or logos are exempt from the proximity requirement if they are clearly present elsewhere on the product. Markings representative of other standards shall not interfere with or be intermixed with the markings requirement by this standard. Example of acceptable and not acceptable product markings can be found in Annex L.	NR	NR	NR

Note: NA=Not Applicable, NR=Not Requested.



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EXHIBIT



-----End The Report-----