



CONSUMER PRODUCTS SERVICES DIVISION

## FUZHOU CHUTIAN ELECTRONICS CO., LTD

**Technical Report:** (9120)297-0362  
Date Received: JUL. 31, 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:           | GOGGLES                                | Sample Quantity:        | 8 PAIRS |
| Sample Description:    | GOGGLES                                |                         |         |
| Producer:              | FUZHOU CHUTIAN<br>ELECTRONICS CO., LTD |                         |         |
| Manufacturer:          | N/A                                    | Style No(s):            | P-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   | 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 - Ningbo  
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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:**

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**Concerns About Billing and General Inquires:**

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**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: 90.9<br>Left: 90.9 | 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: 0.45<br>Left: 0.26 | Pass     |
| 1.4* | Refractive power(D)              | ANSI/ISE A Z87.1 5.1.4 | $\pm 0.06D$                                                                                                                                                           | 1                   | Right: 0.00<br>Left: 0.00 | Pass     |
|      | Astigmatism (D)                  |                        | $\leq 0.06D$                                                                                                                                                          |                     | Right: 0.04<br>Left: 0.00 | Pass     |
|      | Resolving power                  |                        | Pattern 20                                                                                                                                                            |                     | Right: > 20<br>Left: >20  | Pass     |
|      | Prism ( $\Delta$ )               |                        | $\leq 0.25\Delta$                                                                                                                                                     |                     | Right: 0.11<br>Left: 0.04 | Pass     |
|      | Prism imbalance ( $\Delta$ )     |                        | Vertical imbalance: $\leq 0.125\Delta$                                                                                                                                |                     | 0.01                      | Pass     |
|      |                                  |                        | Base in imbalance: $\leq 0.125\Delta$                                                                                                                                 |                     | 0.12                      | Pass     |
|      |                                  |                        | Base out imbalance: $\leq 0.50\Delta$                                                                                                                                 |                     | NA                        | NA       |



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**RESULTS:**

| No. | Test Item                                | Standard Item          | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Number (pairs) | Measurement Result | Comments |
|-----|------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|----------|
| 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.):<br><ul style="list-style-type: none"> <li>•lens (lens only) fractures</li> <li>•piece fully detached from the inner surface;</li> <li>•projectile penetrates the inner surface;</li> <li>•lens not retained.</li> </ul> | 4                   | Meet               | Pass     |
| 1.6 | Ignition                                 | ANSI/ISE A 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/ISE A 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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**RESULTS:**

| No.  | Test Item                           | Standard Item          | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test Number (pairs) | Measurement Result | Comments |
|------|-------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|----------|
| 1.9* | Droplet and splash hazard (Goggles) | ANSI/ISE A Z87.1 8.1.1 | When tested in accordance with Section 9.17.1, the droplet and/or liquids splash shall not cause a red coloration within either of the two circles described in the test method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                   | Meet               | Pass     |
| 1.10 | Markings                            | ANSI/ISE A Z87.1 5.3   | <p>Protector markings shall be placed in relatable proximity to each other on the product in the sequence specified below:</p> <ul style="list-style-type: none"> <li>•Manufacturer's marks or logos</li> <li>•Designation of standard(Z87 or Z87-2, for prescription devices)</li> <li>•Individual claims of compliance</li> <li>•impact-rated marking(+)</li> <li>•lens type</li> <li>•use applications</li> </ul> <p>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.</p> | NR                  | NR                 | NR       |

Note: 1. NA=Not Applicable, NR=Not Requested, >=More than.

2.The test item marked with \* was subcontracted to Shenzhen Precision Eyewear Testing & Inspection Services Co., Ltd., CNAS authorization certificate No. L2210.



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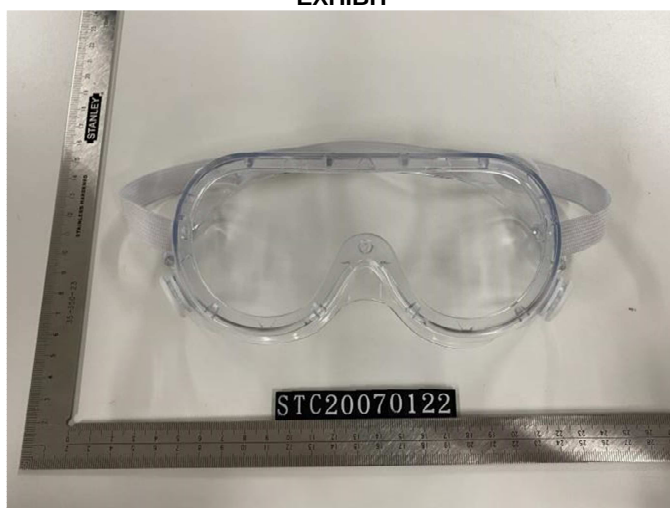
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**RESULTS:**

**EXHIBIT**



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