



Test Report T16600-01-1 Issue 1
ANSI/ISEA Z87.1-2020
ARGUL Y CIA SA
LIBUS Strong Welder Welding Helmet for Passive Filters (Flip Front)
07 December 2021



Approved by:

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21 No 1213
Berazategui (1884)
Argentina

Date: 07 December 2021
Report: T16600-01-1
Issue: 1
Page: 1 of 4

Objective:

Contract testing to ANSI/ISEA Z87.1-2020 “American National Standard for Occupational and Educational Personal Eye and Face Protection Devices”.

- Clause(s): 5. Fundamental Design Requirements for All Protectors
-excluding Markings and Information Provided with Welding Protectors
7. Optional Hazard-Specific Protector Requirements
7.2.2.2 Transmittance of Non-Lens Components

Helmet assessment only (Filter and Cover Lenses Not Assessed)

Samples:

LIBUS Strong Welder Welding Helmet for Passive Filters (Flip Front)

| Description | Quantity | Sample ID |
|--|----------|-----------|
| Fully assembled passive welding helmets with cover, filter and safety lenses | 4 | 0A |

Date(s) submitted: 25 October 2021

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.

Testing procedures as specified within Section 9 of ANSI/ISEA Z87.1-2020 were followed unless noted in results.

When applicable, samples were assessed on medium headform (64mm PD).

Assessment Summary:

Date(s) tested: 03 through 04 November 2021

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2020 for Standard (Non-Impact Rated) Welding Helmet.

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 Report: T16600-01-1
 Issue: 1
 Page: 2 of 4

Assessment Summary (Continued):

| ANSI/ISEA Z87.1-2020 Requirements | Compliant | Non-Compliant |
|--|---------------------|---------------|
| 5. Fundamental Design Requirements for All Protectors | | |
| 5.1 Optical Requirements | Lenses not assessed | |
| 5.2 Physical Requirements | X | |
| 5.2.1 Drop Ball Impact Resistance | X | |
| 5.2.2 Ignition | X | |
| 5.2.3 Corrosion Resistance of Metal Components | Not applicable | |
| 5.2.4 Minimum Coverage Area | X | |
| 5.3 Markings | Excluded | |
| 5.4 Other Requirements | | |
| 5.4.1 Vented Goggles | Not applicable | |
| 5.4.2 Screen Windows and Screen Lenses | Not applicable | |
| 5.4.3 Welding Protectors | | |
| 5.4.3.1 Cover Lenses | Lenses not assessed | |
| 5.4.3.2 Information Provided with Welding Protectors | Excluded | |
| 5.4.4 Frames for Removable Lenses | Not applicable | |
| 5.4.5 Minimum Lens Thickness for Prescription Spectacles | Not applicable | |
| 5.5 Replaceable Lenses | Lenses not assessed | |
| 5.6 Aftermarket Components and Accessories | Not applicable | |
| 7. Optional Hazard-Specific Protector Requirements | | |
| 7.1 Impact Protector Requirements | Not applicable | |
| 7.2 Optical Radiation Protector Requirements | Not applicable | |
| 7.2.2 Protectors providing Filtration of Optical Radiation | | |
| 7.2.2.2 Transmittance of Non-Lens Components | X | |

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Date: 07 December 2021
Report: T16600-01-1
Issue: 1
Page: 3 of 4

Results:

5.2 Physical Requirements; Results: Pass

Protectors are free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

5.2.1 Drop Ball Impact Resistance

| Sample ID | Location | Pass | Fail |
|---|----------|------|------|
| Lift Front Up | | | |
| 0A-1 | Left | X | |
| 0A-2 | Right | X | |
| 0A-3 | Left | X | |
| 0A-4 | Right | X | |
| Lift Front Down | | | |
| 0A-1 | Left | X | |
| 0A-2 | Right | X | |
| 0A-3 | Left | X | |
| 0A-4 | Right | X | |
| Protector shall fail if any of the following occur: | | | |
| <ul style="list-style-type: none"> • lens (lens only) fractures • piece fully detached from the inner surface • projectile penetrates the inner surface • lens not retained | | | |

5.2.2 Ignition; Results: Pass

Components tested (Shell (Black and Grey), Retention (Knob and Knob screw), Ratchet (Knob and Assembly), Headgear, Flip Cover (Black)) did not ignite or continue to glow once the rod is removed.

5.2.4 Minimum Coverage Area; Result: Pass

The frames, lens housings or carriers and lens(es) cover in plain view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the pupil centers of test headform.

7.2.2.2 Transmittance of Non-Lens Area for Welding Helmets

| Sample ID: | 0A-2 | | Requirement (Shade 14) | Pass | Fail |
|-------------------------------------|---------------|--------------------------|------------------------|------|------|
| | Shell (Black) | Bezel (Grey) | | | |
| Luminous (T _L)-ILLA (%) | <0.00001 | <0.00001 | ≤ 0.00044 | | |
| Far-Ultraviolet (200 to 315nm) (%) | <0.00001 | <0.00001 | ≤ 0.0001 | X | |
| Near-Ultraviolet (315 to 380nm) (%) | <0.00001 | <0.00001 | ≤ 0.000016 | X | |
| Infrared (780 to 2000nm) (%) | 0.001 | 0.347¹ | ≤ 0.3 | X | |
| Blue Light (400 to 700nm) (%) | <0.00001 | <0.00001 | ≤ 0.00044 | X | |

¹Borderline value 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

Light Tightness; Result: Pass

When tested in accordance with Section 9.9, there is no penetration of direct visible light in all non-lens areas including the space between the lens and lens housing or carrier.

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Report: T16600-01-1
Issue: 1
Page: 4 of 4

Sample Photographs:



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14. Client agrees to pay any and all additional costs associated with unexpected or above-standard communications and/or consultations with Client or third parties as designated by Client.
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18. Client agrees, in consideration of ICS undertaking to perform the test(s) hereunder, to protect, defend and indemnify ICS from any and all claims, damages, expenses either direct or consequential for injuries to persons or property arising out of or in consequence of the performance of the testing, inspection and reporting hereunder and/or the performance of the products tested or inspected hereunder, unless caused by the negligence of ICS.
19. It is agreed that if ICS should be found liable for any losses or damages attributable to the services hereunder in any respect, its liability shall not exceed the amount of the fee paid by Client for services rendered and Client's sole remedy at law or in equity shall be the right to recover that sum.
20. Quotations are valid for 30 days from date of issue. Standard Terms: 30% Laboratory/Testing fees invoiced and payable upon acceptance of quotation. 15 days net. Any change to these terms requires written approval by the President, Executive Vice President or Accounting Manager. ICS retains the right to require prepayment in full at any time. Cancelled jobs will be invoiced for work performed and/or set-up costs incurred. All jobs will be assessed a \$25 sample disposition fee. Shipping costs over \$25 incurred by ICS for sample returns will be invoiced at cost +10%.
21. ICS hereby objects to any conflicting terms contained in any order, acceptance or other subsequent correspondence submitted by Client.
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