



Test Report T16599-01-1 Issue 1
ANSI/ISEA Z87.1-2020

ARGUL Y CIA SA

LIBUS Strong Welder Welding Helmet for Autodarkening Welding Filters
07 December 2021



Approved by:

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Prepared by:

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Issued to: ARGUL Y CIA S.A.
21 No 1213
Berazategui (1884)
Argentina

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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 Autodarkening Welding Filters

Description	Quantity	Sample ID
Fully assembled welding helmets for autodarkening welding filters with cover, filter and safety lenses	4	9A

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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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	Not applicable	
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		
7.2 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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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
9A-1	Left	X	
9A-2	Right	X	
9A-3	Left	X	
9A-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 Silver), Retention (Knob and Knob screw), Ratchet (Knob and Assembly), Headgear) 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:	9A-2		Requirement (Shade 14)	Pass	Fail
	Shell (Black)	Bezel (Silver)			
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	<0.001	≤ 0.3	X	
Blue Light (400 to 700nm) (%)	<0.00001	<0.00001	≤ 0.00044	X	

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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Sample Photograph:



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10. For the safety of our personnel, Client must advise if samples are known or suspected to contain hazardous substances. Safety Data Sheets must be provided upon request.
11. ICS represents that Services shall be performed according to terms and specification agreed to by Client, and in a manner consistent with good laboratory practice. No other Representations to client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any other report or document related to the services. ICS does not guarantee product performance or compliance.
12. Schedules are confirmed upon acceptance of quotation. All reasonable efforts will be made to comply with provided timeline. Guarantees are neither implied nor promised.
13. Certain work may be subcontracted to ICS-approved laboratories as required or applicable. Client will be notified of this in advance.
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.
15. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
16. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation or conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such third parties.
17. For statements of conformity (pass/fail/"meets") regarding qualitative test results, ICS utilizes simple acceptance as its basis. For most statements of conformity relating to quantitative test results, the decision rule and associated uncertainty is inherent in the standard method. As such, simple acceptance is typically applied. Results on or near pass/fail thresholds or otherwise upon Client request or appeal will be evaluated with reference to the measurement uncertainty of relevant testing practices, equipment and other inputs/variables.
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.
22. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
23. All costs associated with compliance with any subpoena (s) for documents, testimony in a court of law, or for any other purpose relating to work performed by ICS in connection with work performed for that Client, shall be paid by Client. Client shall also pay costs related to deposition and trial testimony.
24. Cancelled/discontinued orders: Client responsible for all administrative and testing charges up to point of cancellation.