



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:

A handwritten signature in blue ink, reading "Keith E. Whitten", is written over a horizontal line.

Keith E. Whitten
Laboratory Manager

Prepared by:

A handwritten signature in blue ink, reading "Cathy Wołoszyn", is written over a horizontal line.

Cathy Wołoszyn
Lab Administrator

- a) Reports are issued pursuant to the ICS standard Terms and Conditions agreement.
- b) The contents of this test report are confidential. Reproduction of the report is prohibited except in full, unless approved in writing by ICS Laboratories, Inc.
- c) Unless otherwise indicated, the test results contained in this report apply only to the samples tested and not to lots or batches from which they were taken.
- d) Where applicable, test data provided by subcontractor is uniquely identified in the test report.
- e) Where applicable, test data not covered under our ISO/IEC 17025 Accreditation is uniquely identified in the test report.

WARNING: This Test Report may contain technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S. C., Sec 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq. and which may not be exported, released or disclosed to non-U.S. persons (i.e. persons who are not U.S. citizens or lawful permanent residents ["green card" holders]) inside or outside the United States, without first obtaining an export license. Violations of these export laws are subject to severe civil, criminal and administrative penalties.

ICS Laboratories, Inc. • 1072 Industrial Parkway North • Brunswick, Ohio 44212 USA
Phone: 330.220.0515 Fax: 330.220.0516

Issued to: ARGUL Y CIA S.A.
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.

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

Date: 07 December 2021
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	

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

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:			
• 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
Component:	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	0.347 ¹	≤ 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.

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

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

Sample Photographs:



TERMS AND CONDITIONS

1. Client acknowledges that ICS Laboratories (ICS) performs testing services only as specified by Client. ICS does not design, warrant, supervise or monitor compliance of products or services except as specifically agreed to in writing. By their very nature, testing, analysis, and other ICS services are limited in scope and subject to expected measurement variability.
2. Client retains the right to clarify test requests and reasonable access to monitor test work, with reference to test queue and obligations regarding the confidentiality of other clients.
3. ICS shall keep documents and information related to Client confidential and will not disclose any such information to third parties without written consent. ICS will disclose such information in response to compulsory legal process, (only after providing Client with notice-of and/or a copy of such process).
4. ICS Reports apply only to the standards or procedures identified therein and to the sample(s) assessed. Test results are not definitively indicative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.
5. ICS Test Reports and their insignia are for the exclusive use of the Client. Reports, in their entirety, may be utilized at the discretion of Clients and/or their authorized agents for purposes including, but not limited to, research & development, recordkeeping, product packaging, educational and promotional materials in various formats, certification, and compliance. As an accredited independent testing laboratory, ICS maintains an interest in preventing the misrepresentation of the contents of its test reports. As such, Clients may NOT use, reproduce or otherwise disseminate excerpted, partial, redacted or otherwise altered ICS test reports without the prior review of such use by ICS and its granting of approval in writing. Further, Clients are prohibited from manipulating data and/or extrapolating-from-it statistics or conclusions that contradict or eclipse the empirical results of testing as reflected by the totality of the report. Clients are to refrain from utilizing ICS Test Reports and/or the ICS logo in a manner that suggests any extra-report conclusions are provided and/or endorsed by ICS Laboratories.
6. The name(s) listed as the "Issued to" party on test reports may not reflect the actual entity submitting and/or contracting the assessment.
7. ICS shall retain copies of testing job files (including reports) for a period of at least six (6) years and when applicable, evidentiary test samples for a length of time agreed to or deemed appropriate. If Client requests additional copies of Reports during this period, an additional charge will apply for the preparation and delivery of such reports.
8. Test reports are valid for certification purposes for one year from date of issue, inclusive of retest or variant additions, which must be performed within one year of date of issue to avoid full retest.
9. Client is responsible for procuring, at its cost, insurance protecting the value of its property, extending to provided samples.
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.