



Test Report T15006-01-2 Issue 1
CSA Z94.3:20 (February 2020)
China-Star Worldwide Corp
SY143 Goggles
24 September 2020



Approved by:

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Taiwan

Date: 24 September 2020
Report: T15006-01-2
Issue: 1
Page: 1 of 7

Objective:

Contract testing to CSA Z94.3:20 (February 2020); “Eye and Face Protection.”

Section(s): 6 General requirements
8 Class 2 protectors-Goggles

Samples:

SY143 Goggles

Lens	Quantity	Sample ID
Clear	21	6A-x & 203961 (35-36)

SY143 Goggles with Rx Carriers

Lens	Rx Carrier Power	Quantity	Sample ID
Clear	Plano	2	6D-x

Date(s) submitted: 09 July 2020 and 20 July 2020

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Testing procedures as specified within Section 12 of CSA Z94.3:20 (February 2020); were followed, unless otherwise indicated.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Samples were assessed for Impact Resistance with Plano Lenses installed in the Rx Carriers

Assessment Summary:

Date(s) tested: 16 through 22 July 2020

Samples as assessed meet the requirements of CSA Z94.3:20 (February 2020) for Class 2B Goggles.

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Date: 24 September 2020
 Report: T15006-01-2
 Issue: 1
 Page: 2 of 7

Assessment Summary (Continued):

CSA Z94.3:20 (February 2020); Requirements	Compliant	Non-Compliant
6 General requirements		
6.1 Impact resistance	X	
6.2 Ignition resistance	X	
6.3 Replacement components		
6.4 Clear zero-power lenses		
6.4.1 Size	Not applicable	
6.4.2 Refractive (residual) power		
6.4.2.1 Clear zero-power	X	
6.4.2.2 Reading segments	Not applicable	
6.4.3 Resolving power	X	
6.4.4 Prismatic deviation	X	
6.4.5 Haze	X	
6.4.6 Luminous transmittance	X	
6.5 Zero-power filters	Not applicable	
6.6 Zero-power special-purpose lenses	Not applicable	
6.7 Aftermarket components or accessories	Not applicable	
6.8 Minimal frontal coverage	X	
6.9 Side protection	X	
6.10 Tolerances and limits		
8 Class 2 Protectors - Goggles		
8.1 Field of view	X	
8.2 Opening within the protector	X	
8.3 Welders' and cutters' models	Not applicable	
8.4 Optical lift front attachments (Class 2C)	Not applicable	
8.5 Laser radiation protection (Class 2D goggles)	Not applicable	
8.6 Electric arc protection (Class 2E goggles)	Not applicable	
8.7 Cover lenses and cover plates	Not applicable	
13 Marking and user information	Not assessed	

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Date: 24 September 2020
Report: T15006-01-2
Issue: 1
Page: 3 of 7

Results:

6.1 Impact resistance

Sample ID	Location	Velocity (m/s)	Pass	Fail
6D-1	Mid Point between pupils	46.6	X	
	Left Ocular Center, 0°	46.6	X	
	Right Ocular Center, 0°	46.5	X	
	Left Ocular, 0°- 15mm to temple	46.3	X	
	Right Ocular, 0°- 15mm to temple	46.4	X	
	Left Lateral, 90°, 10mm behind apex	46.6	X	
	Left Lateral, 90°, 10mm behind Apex	46.7	X	

6.2 Ignition resistance; Result: Pass

Components tested: Lens, Frame (Plastic and Rubber), Outrigger, Strap Adjuster

Components tested did not ignite nor did they continue to glow or be consumed after removal of the steel rod.

6.3 Replacement components

The manufacturer's instructions shall state that replacement components shall be used in accordance with the manufacturer's instructions. The manufacturer shall provide instructions specifying the correct replacement component.

Note: Certification of eyewear is void if replacement components as specified by the manufacturer are not used.

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Date: 24 September 2020
Report: T15006-01-2
Issue: 1
Page: 4 of 7

6.4.2.1 Refractive (residual) power

Sample ID	Left (D)		Right (D)		Pass	Fail
6A-1	0.01	-0.03	0.00	-0.03	X	
Requirement:	+/- 0.12					

Measured with sample mounted on headform.

6.4.3 Resolving power

Sample ID	Resolution of Rings (Yes/No)		Pass	Fail
	Left	Right		
6A-1	Yes		X	
Requirement:	Resolution of the 60-S Ring			

Measured in a 40x33mm area about the reference point with lens normal to objective lens of the telescope

6.4.4 Prismatic deviation

Sample ID	Location	Vertical Imbalance (cm/m)	Horizontal Imbalance (cm/m)	Pass	Fail
6A-1	Center	0.08	0.13 Base Out	X	
	10mm above center	0.05	0.14 Base Out	X	
	10mm below center	0.09	0.13 Base Out	X	
	10mm to the left of center	0.05	0.19 Base Out	X	
	10mm to the right of center	0.09	0.14 Base Out	X	
Requirement:		≤ 0.25	≤ 0.75 Base Out ≤ 0.25 Base In		

Measured using method defined in ANSI Z87.1-2015.

6.4.5 Haze

Sample ID	Left (%)	Right (%)	Pass	Fail
6A-2	0.18	0.15	X	
Requirement:	≤ 2			

Measured using an Illuminate A Hazemeter.

6.4.6 Luminous transmittance

Sample ID	Left (%)	Right (%)	Pass	Fail
6A-2	87.1	87.2	X	
Requirement:	≥ 85			

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Date: 24 September 2020
Report: T15006-01-2
Issue: 1
Page: 5 of 7

6.7 Aftermarket components or accessories

Aftermarket components or accessories that are not supplied with the protector and affect the protector's fit, form, or function shall be tested with the protector to demonstrate their compliance with all requirements applicable to the protector.

The party claiming compliance of the aftermarket component or accessory is responsible for testing the original protector assembled with the aftermarket component or accessory and shall provide evidence of compliance.

6.8 Minimal frontal coverage; Result: Pass

The Class 1 or Class 2 protector shall cover an elliptical area of not less than 40 mm wide and 33 mm high in front of each eye, centred on the pupil centre of the medium test headform.

6.9 Side protection; Result: Pass

When a Class 1 or Class 2 protector is mounted on the test headform in as-worn position, the side protection shall protect an area 20 mm in height starting at, and vertically symmetric around, apex of the cornea and extending back to a point 10mm behind the corneal apex, at which point it becomes a 10 mm radius end extending rearward.

6.10 Tolerances and limits

Throughout this Standard, where a tolerance or limit is not otherwise provided, values given shall be considered nominal.

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Date: 24 September 2020
 Report: T15006-01-2
 Issue: 1
 Page: 6 of 7

8.1 Field of view

Sample ID	Temporal (°)	Vertical (°)	Pass	Fail
6A-1	>90	86	X	
Requirement:	≥ 45	≥ 80		

8.2 Opening within the protector; Results: Pass

Any openings shall prevent the direct entry of the rigid rod 1.5mm in diameter from contacting the eye of the headform.

13 Marking and user information

13.1 Protectors that comply with this Standard shall bear the designation “Z94.3”.

Note: This does not apply to prescription protective eyewear. See Clause 15.

13.2 The following items shall bear a permanent mark identifying the manufacturer or supplier:

- (a) lenses, excluding covers;
- (b) spectacle fronts;
- (c) spectacle temples;
- (d) goggle eye-cups;
- (e) goggle housings;
- (f) helmet housings;
- (g) helmet headgear;
- (h) hand shields; and
- (i) face shield headgear.

Note: *Lenses include plates, filters, windows, and prescription lenses.*

13.3 Zero-power filters and filter windows shall be permanently marked with shade numbers in accordance with all the transmittance requirements for filters given in Table 1.

13.4 Special-purpose lenses shall carry a statement that the lenses are not for use where filter lenses are required.

13.5 For any device certified by a nationally recognized certification organization as meeting this Standard, the mark or other identification of the certification organization shall be permanently placed on at least one component of an assembled product or system.

Note: This Clause does not imply a requirement for any compliant products to be certified. This Clause states only that if the product has been certified, it must be marked as such.

13.6 The following information shall be provided with all non-prescription eye and face protectors:

- (a) assembly instructions where necessary;
- (b) fitting instructions;
- (c) cleaning instructions;
- (d) storing instructions;
- (e) inspection criteria and determination of end of useful life;
- (f) maintenance instructions where necessary;
- (g) hazards for which the protector is appropriate; and
- (h) limitations of the protector.

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Issue: 1
Page: 7 of 7

Sample Photographs:



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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.
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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. Shipping costs incurred by ICS will be invoiced at cost +10% handling fee. A minimum USD \$25.00 handling fee will be invoiced on all sample returns. Shipping costs incurred by ICS will be invoiced \$25.00 or cost +10%, whichever amount is higher.
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.
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