



1000 Cranberry Woods Drive,  
Cranberry Township, PA 16066

**MSA Declaration of Conformity**

In Accordance with ANSI/ISEA 125-2014  
IAC-03-016 - Z04 Rev 1

**Statement of Conformity:** MSA declares that the  
Arctic Elite Spectacles  
is in conformity with the requirements of  
ANSI Z87.1-2020

Product Code	<b>Model / Part Numbers Covered</b>
IAC-03-016	10038845 Clear, 10038846 Grey, 10059671 Gold Mirror The part number listed above meets the requirements of ANSI/ISEA Z87.1-2020 for spectacles

ANSI/ISEA 125-2014 conformity assessment method:  Level 1  Level 2

For Level 2, information about ISO 17025-accredited facility in which the product was tested:

The test facility is an independent 3rd Party ISO 17025-accredited facility  
ISO Accrediting Agency - Standards Council of Canada

The test facility is owned or partially owned by an entity within supplier's corporate  
structure, or within the manufacturing stream for this product, including subcontractors  
and sub-suppliers.

Report

Test Facility Used:

Test Facility Document #

1

ICS

T15893-14-1

Issue 1

For additional information about this product(s), please contact MSA Customer Service at  
1-800-MSA-2222. When requesting information, please reference model number(s).

Brooke Conroy

Brooke Conroy (Mar 3, 2022 14:11 EST)

Mar 3, 2022

QA Rep: B. Conroy

Date: MM/DD/YYYY

# Performance Details

Revision 1

Report	Standard and Product Requirements	Acceptance Criteria	Pass / Fail
1	ANSI/ISEA-Z87.1-2020 Clause 5.1.1 Optical Quality	When tested in accordance with Section 9.1, protector lenses shall be free of striae, bubbles and waves.	Pass
2	ANSI/ISEA-Z87.1-2020 Clause 5.1.2 Luminous Transmittance	When tested in accordance with Section 9.2, clear lenses shall have a luminous transmittance of not less than 85%.	Pass
3	ANSI/ISEA-Z87.1-2020 Clause 5.1.3 Haze	When tested in accordance with Section 9.3, clear plano lenses shall not exhibit more than 3% haze.	Pass
4	ANSI/ISEA-Z87.1-2020 Clause 5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors	The tolerance on refractive power, astigmatism and resolving power shall be as indicated in Table 1. The tolerance on Prism and Prism Imbalance shall be as indicated in Table 2.	Pass
5	ANSI/ISEA-Z87.1-2020 Clause 5.2.2 Ignition	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.	Pass
6	ANSI/ISEA-Z87.1-2020 Clause 5.2.3 Corrosion Resistance of Metal Components	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. Lenses and electrical components are excluded from these requirements.	N/A

7	ANSI/ISEA-Z87.1-2020 Clause 5.2.4 Minimum Coverage Area	The frames, lens housings or carriers and lens(es) shall cover in plane 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 the test headform.	Pass
8	ANSI/ISEA-Z87.1-2020 Clause 5.3 Markings	Protector markings shall be placed in relatable proximity to each other on the product in the sequence specified below: Manufacturer's marks or logos Designation of standard Individual claims of compliance	Pass
9	ANSI/ISEA-Z87.1-2020 Clause 7.1.3 Lateral (Side) Coverage	When tested in accordance with Section 9.10, impact rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.39 in.) in posterior to the corneal plane and not less than 10 mm (0.39 in.) in height above and not less than 10 mm in height below the horizontal plane centered on the eyes of the headform. The probe shall not contact the headform within the defined coverage area.	Pass
10	ANSI/ISEA-Z87.1-2020 Clause 7.1.4.2 High Mass Impact Test	When tested in accordance with Section 9.11, the complete device shall meet the protector acceptance criteria when impacted by a pointed projectile weighing a minimum of 500 g (17.6 oz) dropped from a height of at least 127 cm (50.0 in.). Four complete devices shall be tested within a 20 mm (0.79 in.) circle centered in front of each eye of the headform, two on the left viewing area and two on the right viewing area.	Pass

11	ANSI/ISEA-Z87.1-2020 Clause 7.1.4.3 High Velocity Impact Test	When tested in accordance with Section 9.12, the complete device shall meet the protector acceptance criteria when impacted by either steel ball traveling at its respective velocities specified in Table 5 shown in standard. Six impact sites shall be tested for each type of protector.	Pass
12	ANSI/ISEA-Z87.1-2020 Clause 7.1.4.4 Penetration Test	When tested in accordance with Section 9.13, lenses for all complete devices shall meet the protector acceptance criteria when penetrated by a weighted needle with minimum a total weight of 44.2 g (1.56 oz) dropped from a height of at least 127 cm (50.0 in.). The projectile shall be freely dropped through the guide tube, point downward, from a height of 127 cm (50 in.) onto the horizontal outer surface of the lens. Four complete devices shall be tested within a 20 mm (0.788 in.) circle centered in front of each eye of the headform, two on the left viewing area and two on the right viewing area.	Pass
13	ANSI/ISEA-Z87.1-2020 Clause 7.2.2.1.1 Transmission Requirements	When tested in accordance with Section 9.2, Special purpose filters may or may not comply with Tables 7, 8 or 9, but shall comply with the requirements of Table 10 for special purposes.	Pass

14	ANSI/SEA-Z87.1-2020 Clause 7.2.2.1.2 Visible Light Filters	<p>Visible light filters, including photochromic and mechanical or manual adjustment types, shall meet the requirements and be marked in accordance with Table 9.</p> <p>Visible light filters in the range L1.3 through L3 shall also meet the transmittance requirements of Table 4 of ANSI Z80.3-2018, including traffic signal recognition and UV transmittance (high and prolonged exposure). Visible light filters in the range of L4 through L10 are too dark to be used for driving, but shall meet the UV transmittance (high and prolonged exposure) requirements of Table 4 of ANSI Z80.3-2018.</p>	Pass
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Revision	Date	Project Engineer	Qualified Person
0	9/2/2016	M. Miller	0
1	12/5/2021	M. Miller	A. Witeof