



**The Safety Company**

Mine Safety Appliances Company • John T. Ryan Memorial Lab  
1100 Cranberry Woods Drive, Cranberry Township, PA 16066

**MSA Engineering Self Certification of Standard Compliance**  
IAC-03-004-Z04

**Statement of Compliance:** This faceshield meets the requirements of ANSI/ISEA Z87.1-2010 for Impact Protectors when used with V-Gard Frames, Frame Assemblies, and Headgear: MSA Part Numbers 10121266, 10121267, 10121268, 10116627, 10116628, 10115821, 10115822, 10115730, 10116552, 10124426, 10127061 and 10127062 as well as MSA chin protectors, PN's 10115827 and 10115828 (where applicable).

Tested part number(s) or IAC No.:	"Sold as" part number(s)/Market:
10117750, 10117781, 10118094, 10115836, 10115837, 10115863	10117750, 10117781, 10118094, 10115836, 10115837, 10115863

**Test Facility & Document #:**

Intertek

G100617274CRT-001

G100485409CRT-006

G101105154CRT-001

**SCP Project #**

MSA13-08A

**PERFORMANCE DETAILS**

(May format as needed)

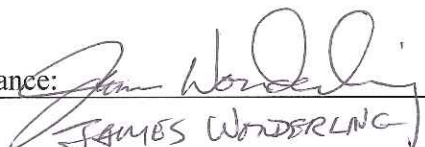
ANSI/ISEA Z87.1-2010 Standard Referenced Section	Results	Pass / Fail
Section 5. General Requirements		
▪ 5.1.1 Optical Quality	Lenses are free of striae, bubbles, waves and other visible defects which would impair their optical quality.	PASS
▪ 5.1.2 Luminous Transmission	Clear lenses have a luminous transmission of no less than 85%.	PASS
▪ 5.1.3 Haze	Clear plano lenses do not exhibit more than 3% haze.	PASS
▪ 5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism Imbalance for Plano Protectors	Lenses are within the tolerance for refractive power, astigmatism and resolving power as well as	PASS

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	prism and prism imbalance.	
<b>Section 6. Impact Protector Requirements</b>		
<ul style="list-style-type: none"> <li>6.1.3 Lateral (side) Coverage</li> </ul>	Device provides continuous lateral coverage (i.e. no openings greater than 1.5mm (.06in.) in diameter) from the edge of the lens to a point not less than 10mm (0.394 in.) posterior to the corneal plane and not less than 10mm (0.394 in.) above and not less than 10mm (0.394 in.) below the horizontal plane centered on the eyes of the headform.	<b>PASS</b>
<ul style="list-style-type: none"> <li>6.2.2 High Mass Impact</li> </ul>	Device is capable of resisting an impact from a pointed projectile. No pieces fully detached from the inner surface, no fractures, no penetration of the rear surface, and lens was retained.	<b>PASS</b>
<ul style="list-style-type: none"> <li>6.2.3 High Velocity Impact</li> </ul>	Device is capable of resisting an impact from a 6.35mm (0.25 in.) diameter steel ball traveling at the velocity of 300 ft/s. There was no contact with the eye of the headform as a result of the impact. No pieces fully detached from the inner surface and the lens was retained. No pieces of protector adhered to the contact past and there was no contact paste on the projectile or the complete device.	<b>PASS</b>
<ul style="list-style-type: none"> <li>6.2.4 Penetration Test (lenses only)</li> </ul>	Lenses are capable of resisting penetration by a weighted needle. No pieces fully detached from the inner surface, no fractures, no penetration of the rear surface, and the lens was retained.	<b>PASS</b>
<b>Section 7. Optical Radiation Protector Requirements.</b>		

▪ Transmittance Requirements for Welding Filters	Claim not being made; not tested	<b>Not Applicable</b>
▪ Transmittance Requirements for Ultraviolet Filters	Where applicable (see resultant lens markings below), lenses meet the requirement for maximum far UV average transmittance % and maximum near UV average transmittance %. (NOTE: Only lenses with a U marking contain UV filter.)	<b>PASS</b> (see below for applicable lens markings)
▪ Transmittance Requirements for Infrared Filters	Claim not being made; not tested	<b>Not Applicable</b>
<b>Section 8. Droplet and Splash, Dust, and Fine Dust.</b>		
▪ Droplet and Splash Hazard (Faceshields)	The laser beam did not make direct contact with any point on the eye-region rectangle without first being interrupted by the faceshield.	<b>PASS</b>
▪ Dust Hazard	Claim not being made; not tested	<b>Not Applicable</b>
▪ Fine Dust Hazard	Claim not being made; not tested	<b>Not Applicable</b>
<b>Resultant Lens Marking</b>	<b>Part Number</b>	<b>Marking</b>
	10117750	MSAZ87+U6
	10117781	MSAZ87+U6
	10118094	MSAZ87+U6
	10115836	MSAZ87+U6
	10115837	MSAZ87+U6
	10115863	MSAZ87+U6

For additional information about this product(s), please contact MSA Customer Service at 1-800-MSA-2222 (for industrial products) or Safety Works Customer Service at 1-800-969-7562 (for retail products). When requesting information, please reference "sold as" part number(s).

Quality Assurance:   
JAMES WONDERLING

Date: June 6, 2013