

EC TYPE-EXAMINATION CERTIFICATE: 2247

Product description: - Helmet or Headgear Mounted Visors

Product identification: - See Schedule

Manufacturer: - Mine Safety Appliances Company
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
USA

When assessed and examined against harmonised standard EN166:2001 & EN1731:2006 are found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Authorised Representative: - MSA Europe GmbH
Schlüsselstrasse 12
8645 Jona
Switzerland

Signed



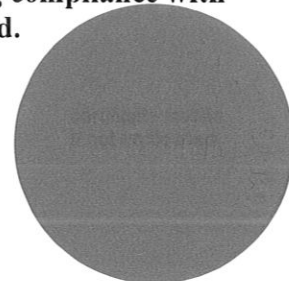
Date: 4th December 2014

K J Warren, Manager, Certification Services

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ
England (Notified Body No: 0194)

Certification remains valid until 28th August 2017, providing compliance with INSPEC's terms and conditions is maintained.

Original date of issue: 14th October 2011



For terms and conditions of issue, see page 2

Terms and Conditions

Reference Documents: -

- i) Test Reports - 1.11.10.31 to 1.11.10.59, 1.11.10.87 & 1.11.10.96, 1.12.02.26, 1.12.02.79, 1.12.02.80, 1.12.02.81, 1.12.02.86, 1.12.03.30, 1.12.03.39, 1.12.03.53, 1.12.03.59, 1.12.04.02, 1.12.04.73, 1.12.08.48, 1.12.08.54 & 1.13.04.18/19/20/21 1.13.06.09, 1.13.07.31, 1.13.10.40, 1.14.07.29
- ii) Technical File - TF/2247
D-S01-0008 ind 9
- iii) Test and Inspection Plan - V-Gard , Visor test plan for ANSI, EN166
CSA & AS/NZS

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.
- v) This certificate may be copied or reproduced by the certificate holder, complete and without omissions or additions, and in accordance with INSPEC's terms of business.
- vi) This certificate has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

CERTIFICATION INDEX

Item	Status	Issued	Amendment
Pages 1 to 4	Withdrawn	111014	Initial Issue
Pages 1 to 4	Withdrawn	111109	Addition of filtering and non-filtering variants + removal of debris control frames
Pages 1 to 6	Withdrawn	120228	Addition of Mesh Visors and carrier
Pages 1 to 6	Withdrawn	120301	Addition of various new visors
Pages 1 to 6	Withdrawn	120315	Update to coverage of Mesh Visors to include debris control carriers
Pages 1 to 6	Withdrawn	120427	Update to coverage of visors and addition of enhanced reflectance model. Addition of V-Gard 200 helmet
Pages 1 to 6	Withdrawn	120725	Addition of mesh frame 10116556
Pages 1 to 6	Withdrawn	120828	Addition of green/gold visor 10115850
Pages 1 to 6	Withdrawn	121110	Removal of part numbers 10115839, 10115840, 10115841, 10115842, 10115843.
Pages 1 to 6	Withdrawn	130208	To correct previous error, part number 10115840 added back to schedule. To update technical file with Utac certification for V-Gard 200
Pages 1 to 6	Withdrawn	130530	Addition of new head gear, part numbers 10127061 and 10127062. Modification of debris control straps, textile to rubber.
Pages 1 to 6	Withdrawn	131202	Addition of PC clear AFAS visors, part numbers 10154949 / 10154950 / 10154961 / 10154962
Pages 1 to 6	Withdrawn	140827	Addition of alternative mesh for part numbers 10116557 and 10116558 (part numbers 10155774 and 10155775)
Pages 1 to 6	Valid	141204	Authorised representative name and address updated Addition of part number 10161514 ELECTRIC ARC VISOR, PC, CLR, AF/AS with trim

CERTIFICATION SCHEDULE

Sheet Visor – Short and standard

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115836	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B
10115837*	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B
10115840	Clear	1	Polycarbonate 1.5mm	EN170	2C-1,2	B 389
10117750	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B
10117781*	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B
10117782	Clear	1	Polycarbonate 1.5mm	EN170	2C-1,2	B 389
10117783*	Clear	1	Polycarbonate 1.5mm	EN170	2C-1,2	B 389
10154949	Clear	1	Polycarbonate 1.5mm	EN170	2C-1,2	B 389 KN
10161514	ELECTRIC ARC VISOR, PC, CLR, AF/AS with trim					
	Clear	1	Polycarbonate 1.5mm	EN170	2C-1,2	B 389 KN
10154950*	Clear	1	Polycarbonate 1.5 mm	EN170	2C-1,2	B 389 KN
10154961	Green tint	1	Polycarbonate 1.5mm	EN170	2-2	B 39 KN
10154962*	Green tint	1	Polycarbonate 1.5mm	EN170	2-2	B 39 KN

Sheet Visor – Medium and standard

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115863	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B
10118094	Clear	1	Polycarbonate 1.0mm	EN170	2C-1,2	B

Visors are certified for use with the following Carriers:

10121266	Standard frame for slotted caps without debris control	EN166 389 BT / EN1731-F
10115730	Standard frame for slotted caps with debris control	EN166 389 BT / EN1731-F
10121267	Frame for elevated temperature slotted caps without debris control	EN166 389 BT / EN1731-F
10115821	Frame for elevated temperature slotted caps with debris control	EN166 389 BT / EN1731-F
10115822	Universal frame for caps	EN166 389 BT / EN1731-F
10121268	Universal frame for caps without debris control	EN166 389 BT / EN1731-F
10124426	Universal frame for elevated temperature caps without debris control	EN166 389 BT / EN1731-F
10116552	Universal frame for elevated temperature caps with debris control	EN166 389 BT / EN1731-F

Visors are certified for use with the following brow guards /headgears):

10127061	V-Gard Headgear Standard, HDPE .	EN166 389 BT / EN1731-F
10127062	V-Gard Headgear Elevated Temperature, Nylon.	EN166 389 BT / EN1731-F

The following visors cannot be used with debris control carriers:

10117750
10117781
10118094
10117782
10117783

Visors are certified for use with the following helmets (Covered by INSPEC certificate 0197)

V-Gard
V-Gard 200
V-Gard 500
V-Gard 520
Thermalgard

* For use with the following chin guards:

10115827	Standards chin guard	EN166 389 BT / EN1731-F
10115828	Retractable chin guard	EN166 389 BT / EN1731-F

CERTIFICATION SCHEDULE

Moulded Visor – short-standard

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115855	Clear	1	Propionate 2.5mm	-	-	B3
10115856*	Clear	1	Propionate 2.5mm	-	-	B3
10115859	Shade 3	1	Polycarbonate 1.8mm	EN169/171	3.0/4-3	BT39
10115860*	Shade 3	1	Polycarbonate 1.8mm	EN169/171	3.0/4-3	BT39
10115861	Shade 5	1	Polycarbonate 1.8mm	EN169/171	5.0/4-5	BT39
10115862*	Shade 5	1	Polycarbonate 1.8mm	EN169/171	5.0/4-5	BT39

Moulded Visor – medium-standard

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115844	Clear	1	Polycarbonate 2.5mm	EN170	2C-1,2	BT 389 KN
10115845	Green	1	Polycarbonate 2.5mm	EN170	2-2	BT 39 KN

Moulded Visor – medium-extended

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115846	Clear	1	Polycarbonate 2.5mm	EN170	2C-1,2	BT 389 KN
10115849	Green	1	Polycarbonate 2.5mm	EN170	2-2	BT 39 KN
10115851	Clear	1	Propionate 2.5mm	-	-	B3
10115848	Clear reflective coated	1	Polycarbonate 1.8mm	EN170	2C-2,5	BT3R
10115850	Green reflective coated	1	Polycarbonate 1.8mm	EN170	2-4	BT3R

Moulded Visor – long-standard

P/N	Colour	Optical Class	Material	Filtering Standard	Scale	Options
10115853	Clear	1	Polycarbonate 2.5mm	EN170	2C-1,2	BT 389 KN
10115854	Green	1	Polycarbonate 2.5mm	EN170	2-2	BT 39 KN

Visors are certified for use with the following Carriers:

10121266	Standard frame for slotted caps without debris control	EN166 389 BT / EN1731-F
10115730	Standard frame for slotted caps with debris control	EN166 389 BT / EN1731-F
10121267	Frame for elevated temperature slotted caps without debris control	EN166 389 BT / EN1731-F
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10121268	Universal frame for caps without debris control	EN166 389 BT / EN1731-F
10124426	Universal frame for elevated temperature caps without debris control	EN166 389 BT / EN1731-F
10116552	Universal frame for elevated temperature caps with debris control	EN166 389 BT / EN1731-F

Visors are certified for use with the following brow guards/headgears :

10127061	V-Gard Headgear Standard, HDPE .	EN166 389 BT / EN1731-F
10127062	V-Gard Headgear Elevated Temperature, Nylon.	EN166 389 BT / EN1731-F

Visors are certified for use with the following helmets (Covered by INSPEC certificate 0197)

V-Gard
 V-Gard 200
 V-Gard 500
 V-Gard 520
 Thermalgard

* For use with the following chin guards:

10115827	Standard chin guard	EN166 389 BT / EN1731-F
10115828	Retractable chin guard	EN166 389 BT / EN1731-F

CERTIFICATION SCHEDULE

Mesh Visor

P/N	Material	Options
10116556	Epoxy steel mesh (luminous transmittance: 46 %) with aluminium trim	F
10116557	Epoxy coated steel mesh (luminous transmittance: 46 %) with plastic moulded trim	F
10116558*	Epoxy coated steel mesh (luminous transmittance: 46 %) with plastic moulded trim	F
10155774	Epoxy coated steel mesh (luminous transmittance: 74 %) with plastic moulded trim	F
10155775*	Epoxy coated steel mesh (luminous transmittance: 74 %) with plastic moulded trim	F

Visors are certified for use with the following Carriers:

10121266	Standard frame for slotted caps without debris control	EN166 389 BT / EN1731-F
10115730	Standard frame for slotted caps with debris control	EN166 389 BT / EN1731-F
10121267	Frame for elevated temperature slotted caps without debris control	EN166 389 BT / EN1731-F
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Visors are certified for use with the following helmets (Covered by INSPEC certificate 0197)

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 V-Gard 500
 V-Gard 520
 Thermalgard

* For use with the following chin guards:

10115827	Standards chin guard	EN166 389 BT / EN1731-F
10115828	Retractable chin guard	EN166 389 BT / EN1731-F