

### CE Certification

MSA range of winter liners includes various products for use in different types of applications, in conjunction with MSA industrial helmets. MSA Winter Liners are comfort accessories aiming at enabling a more comfortable use of MSA Safety helmets in cold operating conditions, aiming at being used together with MSA Safety Helmets.



All the range was auto-certified CE as PPE Category 1 at a minimum in conformity with PPE Directive 89/686/EEC Chapter 2, Article 8, Paragraph 3:

*“EC type-examination shall not be required in the case of PPE models simple design where the designer assumes the user can himself assess the level of protection provided against the minimal risk concerned the effects of which when they are gradual, can be safely identified by the user on good time - atmospheric agents of a neither exceptional nor extreme nature (seasonal clothing...)”*

MSA can deliver a Declaration of Conformity on request as per annex VI of the Directive (No type-examination needed for Category 1 PPE means no Certificate). The CE logo will be added on the liners labels for future production.

In addition, these liners have been added to the MSA V-Gard Safety helmets certificates by our Notified bodies INSPEC and UTAC as V-Gard helmets accessories, after checking of EN397 testings used with helmets.

### Additional performances: Test Reports

In parallel of this EN certification of the range, MSA has implemented testing to rate additional performance of the liners.

P/N	Specification	Testing
<b>SUPREME</b> 10118421 10118425 10118427	<b>Flame retardancy:</b> V-Gard Supreme liners are made of special flame resistant fibers. Flame retardancy is consistent, can NOT be removed by washing unlike many other winter liners in the market	<b>ISO EN 14116: 2008, Protective clothing. Protection against heat and flame. Limited flame spread materials, material assemblies and clothing</b> (Paragraph 6.1 Thermal performance Fabric, 6.1.4 Thermal performance Seams)  Test Reports 6565-15msa/6565-16msa
<b>SELECT</b> 10118420 10118423 10118424 10118426 10129659	<b>Flame retardancy up to 50 washes:</b> V-Gard Select liners have been chemically treated to ensure flame retardancy up to 50 washings (25 washings for 10118424)	EN ISO 14116:2008 specifies the performance requirements for the limited flame spread properties of materials, material assemblies and protective clothing in order to reduce the possibility of the clothing burning and therefore avoiding a hazard.  Protective clothing complying with EN ISO 14116 is intended to protect workers against occasional & brief contact with small igniting flames, in circumstances where there is no significant heat hazard and without the presence of another type of heat
<b>SUPREME + SELECT</b> 10118420 10118423 10118424 10118426 10129659 10118421 10118425 10118427	<b>Water repellance:</b> V-Gard Select and Supreme liners are water repellent to ensure higher comfort for outdoor operations.	These liners where indicated have a minimum water repellent performance of Grade 3 according to <b>AATCC 22-2010</b>  JTC Test reports
<b>SUPREME</b> 10118421 10118425 10118427	<b>Arc Exposure:</b> V-Gard Supreme liners offer protection for Arc Thermal Performance Value of 8 cal/cm2	<b>ASTM F 1959/F 1959M-06</b>  Standard Test Method for Determining the Arc Rating of Materials for Clothing, testing conducted by Kinectrics, Toronto, Canada, under report numbers 1108P33/ 1106P17
<b>VALUE</b> 10118417 10118418	<b>Antistatic:</b> V-Gard knit cap & V-Gard knit cap/hat cover has full antistatic performance for safe use: Dust / IIC => 10118417 Dust / iiB => 10118418  All the other models have antistatic fabrics (IIB)	EN13463-1 Non electrical equipment for use in potentially explosive environment (ATEX)  Testing done by INERIS: INERIS-DRA-12-129879-06115B

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 Chatillon, July 29th 2013

