



Finnish Institute of  
Occupational Health

FIOH  
notified by the Ministry of Social Affairs and Health  
and identified under 0403 grants

# EC TYPE EXAMINATION CERTIFICATE

14458PWS01

for electrostatic dissipative protective clothing  
against heat and flame, and thermal effects of electric arc  
as defined in EN 1149-5:2008,  
EN ISO 11612:2008, A1 B1 C1,  
and IEC 61482-2:2009 class 1 (4 kA)

**Protection LITE Base layer:**  
**Crewneck, Long Johns M's, Long Johns W's,**  
**Balaclava**  
Woolpower AB  
Östersund, Sweden

These products comply with Directive 89/686/EEC,  
as amended

Helsinki, 11 December 2014  
Expiry date: 10 December 2019

Helena Mäkinen  
Leading Specialist

Erja Tammela  
Senior Specialist



## 1. Applicant

Woolpower AB  
Chaufförsvägen 29  
SE-831 48 Östersund  
Sweden

## 2. Description and identification of the product

Type: Electrostatic dissipative protective clothing against heat and flame, and thermal effects of electric arc as defined in EN 1149-5:2008, EN ISO 11612:2008, A1 B1 C1, and IEC 61482-2:2009 class 1 (4 kA)

Name: Protection LITE Base layer: Crewneck, Long Johns M's, Long Johns W's, Balaclava

Description: Undergarments are made in a knitted fabric quality Protection LITE, 60% Merino Wool, 38% Lenzing FR, 2% Beltron, 200 g/m<sup>2</sup> (Woolpower AB).

Manufacturer: Woolpower AB, Chaufförsvägen 29, SE-831 48 Östersund, Sweden

Pictures of the models are on page 3.

## 3. Adequacy and validity of the technical documentation

The documentation supplied by the applicant is listed in Appendix 1. The technical documentation is considered adequate and valid. Material of the products has been tested in accordance with harmonized European standards EN ISO 11612:2008, EN 1149-5:2008 and EN 61482-1-2:2007 by accredited testing laboratories. The models of the products supplied by the applicant conform to the technical documentation.

## 4. Compliance with basic health and safety requirements

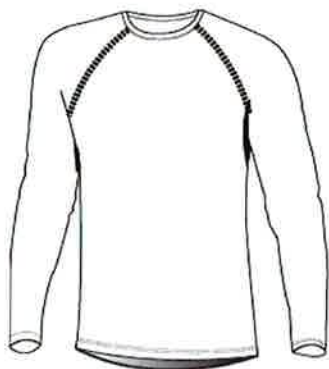
The products and the technical documentation relating to them comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended.

Note: Any modification in design, materials, or in the technical documentation, carried out on these type examined products must be brought to the attention of FIOH.



Pictures of the products

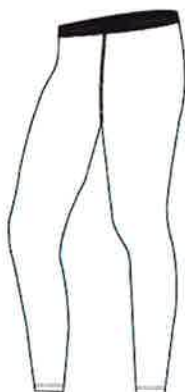
Crewneck



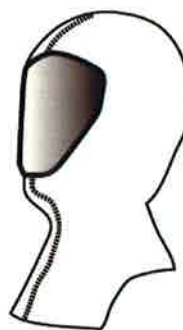
Long Johns M's



Long Johns W's



Balaclava



Appendix 1. Technical documentation

End of EC type examination certificate 14458PWS01.



**Technical documentation regarding EC type examination certificate 14458PWS01**

Product name: Protection LITE Base layer: Crewneck, Long Johns M's, Long Johns W's, Balaclava

Applicant: Woolpower AB, Chaufförsvägen 29, SE-831 48 Östersund, Sweden

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	2014-11-27	
2. Product drawing, construction, and material list	Drawings of the products	Models are identified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.5	
3.1 FIOH assessment of relevant Directive basic requirements	2014-12-11	The applied harmonised standards EN ISO 13688:2013, EN 1149-5:2008 and EN ISO 11612:2008 support the relevant requirements of the Directive
3.2 FIOH test report	NO. 264949T01, 2014-11-28 Protection LITE, knitted fabric	Material meets the requirements of EN ISO 11612:2008, A1 B1 C1, and of EN 1149-5:2008
3.3 Aitex test report	No. 2014EP2342, 2014-11-13 Protection LITE	Material meets the requirements of class 1 (4 kA) when tested against electric arc according to EN 61482-1-2:2007
3.4 Draft information sheet	Draft for user information	Document meets the requirements of the directive, EN ISO 13688:2013, EN 1149-5:2008 and EN ISO 11612:2008
3.5 Product markings	Drafts of markings	Markings meet the requirements of EN ISO 13688:2013, EN 1149-5:2008 and EN ISO 11612:2008
4. Description of the production quality system and related product control and test facilities	Swedac ISO 9001:2008, ISO 14001:2004 Certificate No. 588, 2011-07-01, Woolpower Östersund AB	Adequate for category III products