



Finnish Institute of
Occupational Health

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

EC TYPE EXAMINATION CERTIFICATE

16446WKS01

for protective clothing against heat and flame,
and thermal effects of electric arc
as defined in EN ISO 11612:2015, A1+A2 B1 C1,
and IEC 61482-2:2009 class 1 (4 kA),
single layer material ATPV 11,1 cal/cm²,
double layer material ATPV 27,6 cal/cm²

Quality 168 Power:

**168-100 Long Johns, 168-228 Shirt,
168-240 Zip Neck,
168-818 Hood, 168-819 Double Hood**
Devold of Norway AS
Langevåg, Norway

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

Helsinki, 4 November 2016
Expiry date: 3 November 2021

Minna Torenus
Specialist

Erja Tammela
Senior Specialist

This certificate comprises 3 pages and an appendix.
This certificate replaces certificate 11029LGS01, 2011-02-01

Finnish Institute of Occupational Health, Notified Body No. 0403,
Topeliuksenkatu 41 b, FI-00250 Helsinki, Finland



1. Applicant

Devold of Norway AS
Molvaersveien 12
N-6030 Langevåg
Norway

2. Description and identification of the product

Type: Protective clothing against heat and flame and thermal effects of electric arc as defined in EN ISO 11612:2015 and IEC 61482-2:2009

EN ISO 11612: A1+A2 B1 C1
IEC 61482-2: Class 1 (4 kA); Single layer material ATPV 11,1 cal/cm², double layer material ATPV 27,6 cal/cm²

Name: Quality 168 Power: 168-100 Long Johns, 168-228 Shirt, 168-240 Zip Neck, 168-818 Hood, 168-819 Double Hood

Description: Garments are made of quality 168, 100% FR Merino Wool, interlock, 270 g/m² (Devold of Norway AS, Norway).

Manufacturer: UAB Devold, Lithuania

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 and the products have been tested in accordance with harmonized European standards EN ISO 11612:2015 and IEC 61482-2:2009 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

168-100 Power Long Johns



168-228 Power Shirt



168-240 Power Zip Neck



168-818 Hood
168-819 Double Hood



Appendix 1. Technical documentation

End of EC type examination certificate 16446WKS01.



Technical documentation regarding EC type examination certificate 16446WKS01

Product name: Quality 168 Power: 168-100 Long Johns, 168-228 Shirt, 168-240 Zip Neck, 168-818 Hood, 168-819 Double Hood

Applicant: Devold of Norway AS, Molvaersveien 12, N-6030 Langevåg, Norway

Item of technical documentation	Document identification	Assessment
1. Application for the EC type examination	2016-11-02	
2. Product drawing, construction, and material list	Product specification, Quality 168 Folder summaries, 2016-11-02: <ul style="list-style-type: none">• 168-240 Power Zip Neck Folder summaries, 2011-01-07 <ul style="list-style-type: none">• 168-100 Power Long Johns• 168-228 Power Shirt	Material is specified, models are identified and described
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.7	
3.1 FIOH assessment of relevant Directive basic requirements	2016-11-04	The applied harmonised standards EN ISO 13688:2013 and EN ISO 11612:2015 support the relevant requirements of the Directive
3.2 FIOH test report	No. 10464T01, 2010-09-06 No. 10464T02, 2010-09-21 Quality 168, knitted fabric Flat lock seam	Material meets the requirements of EN ISO 11612:2015, A1+A2 B1 C1, Seam meets the requirements of EN ISO 11612:2015 for limited flame spread A1+A2
3.3 STFI test report	No. 2012 1466, 2012-08-07 Quality 168	Material meets the requirements of IEC 61482-2:2009 class 1 (4 kA) when tested according to EN 61482-1-2:2007
3.4 Aitex test report	No. 2016EP0554, 2016-03-08 Quality 168, single layer No. 2016EP1956, 2016-08-29 Quality 168, double layer	Material meets the requirements of IEC 61482-2:2009 when tested according to EN 61482-1-1:2009. Arc rating ATPV for single layer 11,1 cal/cm ² , for double layer 27,6 cal/cm ²
3.5 STFI test report	Ref: 0363/07, 2007-04-02 Long sleeve shirt XL 168-228	Shirt meets the requirements of IEC 61482-2:2009 class 1 (4 kA) when tested according to EN 61482-1-2:2007
3.6 Draft information sheet	User information	Document meets the requirements of the directive, EN ISO 13688:2013, EN ISO 11612:2015 and IEC 61482-2:2009
3.7 Product markings	In folder summaries	Markings meet the requirements of EN ISO 13688:2013, EN ISO 11612:2015 and IEC 61482-2:2009
4. Description of the production quality system and related product control and test facilities	Norske Veritas Management System Certificate No. 78392-2010-AQ-FIN-FINAS, 2010-05-26 UAB Devold	Agreement with FIOH on the EC quality control system for the final product (PPE category III products)