



Finnish Institute of
Occupational Health

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

EC TYPE EXAMINATION CERTIFICATE

15219GNS01

for high visibility clothing
as defined in EN ISO 20471:2013,
trousers and waistcoat class 2, jackets class 3,
all ensembles class 3

**Trousers 120025, Jacket 120026,
Jacket 120027, Waistcoat 120028**

Kwintet AB
Malmö, Sweden

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

Helsinki, 15 May 2015
Expiry date: 14 May 2020

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1. Applicant

Kwintet AB
Jörgen Kocksgatan 9
SE-211 20 Malmö
Sweden

2. Description and identification of the product

Type: High visibility clothing as defined in EN ISO 20471:2013
Trousers and waistcoat class 2, jackets class 3, all ensembles class 3 for minimum areas of visible materials

Name: Trousers 120025, Jacket 120026, Jacket 120027, Waistcoat 120028

Size range: XS ->

Description: Garments are partly made of a fluorescent orange fabric Kingpin, 100% PES, 235 g/m² (Concordia Textiles nv., Belgium).
Non-fluorescent parts are made of green 100% PES twill fabric TP240, 240 g/m² (Wujiang Xiaohe Textile Co. Ltd., China).

Garments are lined with a quilted lining art. 68600111, 100% PES, 170 g/m², black (Mittet UAB, Lithuania). Pile fabric inside collars is knitted pile fabric quality 2018112C, 100% PES, 280 g/m², black (Mittet UAB). Rib material is quality 810, 98% Acrylic, 2% Elastane, dark blue or black (Triksåby AB, Sweden).

Retroreflective material is LOXY 9901 (Sto-Nor Industri AS, Norway).

Manufacturer: Kwintet AB, Jörgen Kocksgatan 9, SE-211 20 Malmö, Sweden

Pictures of the products 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. Materials of the products have been tested in accordance with a harmonized European standard EN ISO 20471:2013 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

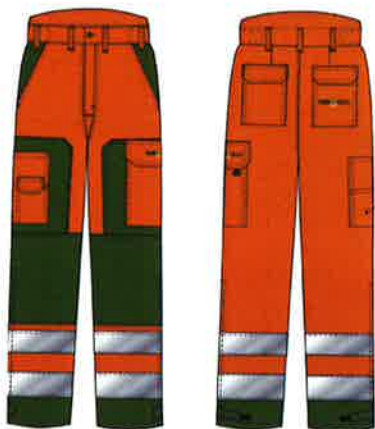
The products and the technical documentation relating to them comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended, last amended by 96/58/EC.

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

Trousers 120025



Jacket 120026



Jacket 120027



Waistcoat 120028



Appendix 1. Technical documentation

End of EC type examination certificate 15219GNS01.



Technical documentation regarding EC type examination certificate 15219GNS01

Product name: Trousers 120025, Jacket 120026, Jacket 120027, Waistcoat 120028

Manufacturer: Kwintet AB, Jörgen Kocksgatan 9, SE-211 20 Malmö, Sweden

Item of technical documentation	Document identification	Assessment
1. Application for the EC type examination	2015-05-08	
2. Product drawing, construction, and material list	Pictures of the products, Measurement Charts, BOMs: <ul style="list-style-type: none"> • Winter trousers, 2015-02-16 • Winter jacket, 2015-02-26 • Winter parkas, 2015-02-26 • Winter waistcoat, 2015-04-20 	Products are identified and materials are specified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.9	
3.1 FIOH assessment of relevant Directive basic requirements	2015-05-15	The applied harmonised standards EN ISO 13688:2013 and EN ISO 20471:2013 support the relevant requirements
3.2 Concordia Certification report (including all test reports)	Ref: CR253, 2013-12-09 Kingpin, HV Orange	Fluorescent material meets the requirements of EN ISO 20471:2013 for a woven background material (50x60°C)
3.3 SGS test report	No. HKSL1411201579TX, 2014-11-19 Woven twill 100% PES, Green	Non-fluorescent material meets the requirements of EN ISO 200471:2013
3.4 Lithuanian Textile Institute test report	No. 268-09 E, 2009-12-11 Thread quilted material art. 68600111, Black	Non-fluorescent pile material meets the requirements of EN ISO 200471:2013 for colour fastness
3.5 SRI test report	No. No. 88-13E, 2013-03-22 Knitted fabric art. 810, Navy, Black	Non-fluorescent rib material meets the requirements of EN ISO 200471:2013 for colour fastness
3.6 Satra test report	SPC0218279/1338/1, Issue 2, 2013-11-06 LOXY 9901 Silver	Retroreflective material meets the requirements of EN ISO 20471:2013
3.7 FIOH test record	Assessment of the design and measurement of areas, 2015-05-05	Trousers and waistcoat in size XS meet the minimum area requirements of class 2, jacket and parka in size XS of class 3 as defined in EN ISO 20471:2013. All ensembles meet class 3. Areas of reflective and fluorescent materials: <ul style="list-style-type: none"> • Trousers 120025: 0.10 m², 0.72 m² • Jacket 120026: 0.23 m², 0.90 m² • Jacket 120027: 0.22 m², 0.82 m² • Waistcoat 120028: 0.13 m², 0.53 m²
3.8 Draft information sheet	User Instructions: High Visibility Garments, Kwintet	Document meets the requirements of the Directive, EN ISO 13688:2013 and EN ISO 20471:2013



3.9 Product markings	Layout CE-labels, 2015-05-06	Markings meet the requirements of EN ISO 13688:2013 and EN ISO 20471:2013
4. Description of the production quality system and related product control and test facilities	ISO 9001 Certificate no. 1430, Kwintet Sverige AB, 2014-05-27	Adequate for category II products