



Finnish Institute of
Occupational Health

FIOH

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

EC TYPE EXAMINATION CERTIFICATE

15272FHS01rev1

for high visibility clothing
as defined in EN ISO 20471:2013

Hi-vis Softshell Jacket class 2,

Art. 35924 5 00-07 Orange, Art. 35924 6 00-07 Yellow

Hi-vis Softshell Jacket class 3,

Art. 35928 5 00-07 Orange, Art. 35928 6 00-07 Yellow

Synfiber AS
Oslo, Norway

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

Helsinki, 22 December 2015
Expiry date: 21 December 2020

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1. Applicant

Synfiber AS
Professor Birkelandsvei 35
N-1081 Oslo
Norway

2. Description and identification of the product

Type: High visibility clothing as defined in EN ISO 20471:2013

Jacket 35924 class 2, Jacket 35928 class 3 for minimum areas of visible materials

Name: Hi-vis Softshell Jacket, Art. 35924 5 00-07 Orange, Art. 35924 6 00-07 Yellow
Hi-vis Softshell Jacket, Art. 35928 5 00-07 Orange, Art. 35928 6 00-07 Yellow

Size range: XS ->

Description: Jackets can be made of the following alternative background materials:

- fluorescent yellow or orange fabric, 92% PES, 8% Spandex, 310 g/m² (Kunshan Yon-Tex Laminated fabrics, China)
- fluorescent yellow or orange ribstop softshell fabric bonded, 83% PES, 17% Spandex, 310 g/m² (Everest Textile Co. Ltd., Taiwan).

Non-fluorescent parts are made of the same qualities in black.

Retroreflective material is LOXY® 9201 Silver Silver (Sto-Nor Industri AS, Norway).

Manufacturer: Zhejiang Huaxing Garments Co.Ltd., China

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 and 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.

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

Hi-vis Softshell Jacket, Art. 35924 5 00-07
Orange, Art. 35924 6 00-07 Yellow



Hi-vis Softshell Jacket, Art. 35928 5 00-07
Orange, Art. 35928 6 00-07 Yellow



Appendix 1. Technical documentation

End of EC type examination certificate 15272FHS01rev1.



Technical documentation regarding EC type examination certificate 15272FHS01rev1

Product name: Hi-vis Softshell Jacket, Art. 35924 5 00-07 Orange, Art. 35924 6 00-07 Yellow
Hi-vis Softshell Jacket, Art. 35928 5 00-07 Orange, Art. 35928 6 00-07 Yellow

Applicant: Synfiber AS, Professor Birkelandsvei 35, N-1081 Oslo, Norway

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	2015-05-18 E-mail, 2015-12-21	
2. Product drawing, construction, and material list	Sketches of the products Measurements, 2014-11-26	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 3.1-3.10	
3.1 FIOH assessment of relevant Directive basic requirements	2015-08-11	The applied harmonised standards EN ISO 13688:2013 and EN ISO 20471:2013 support the relevant requirements
3.2 SGS test report	HZ1226873/TX, 2012-05-24 Ribstop softshell bonded, 92% PES 8% spandex, HV Yellow HZSL1405031933TX, 2014-06-06 Ribstop softshell bonded, 92% PES 8% spandex, HV Yellow, HV Red HZSL1405031939TX, 2014-07-14 HZSL1507050248TX, 2015-07-16 Ribstop softshell bonded, 92% PES 8% spandex, HV Orange	Fluorescent material and colours meet the requirements of EN ISO 20471:2013 (5 wash cycles at 40°C)
3.3 SGS test report	HZ1211664/TX, 2012-03-22 Ribstop softshell bonded, 92% PES 8% spandex, Navy, Grey, Black	Non-fluorescent colours meet the requirements of EN ISO 20471:2013 for colour fastness
3.4 Intertek test report	TWNT01112000, 2014-12-01 83% PES 17% Spandex, HV Yellow TWNT01093227, 2014-10-22 TWNT01162870-S1, 2015-05-07 83% PES 17% Spandex, HV Orange, Black TWNT01162851-S1, 2015-05-07 83% PES 17% Spandex, HV Yellow, Black	Fluorescent materials meet the requirements of EN ISO 20471:2013 (5 wash cycles at 40°C)
3.5 Intertek test report	TWNT01112019, 2014-12-02 83% PES 17% spandex, Black	Non-fluorescent colour meets the requirements of EN ISO 20471:2013 for colour fastness
3.6 SGS test report	No. HZSL1409078529TX, 2014-10-16 100% PES brushed tricot in black for pocket	Non-fluorescent material meets the requirements of EN ISO 20471:2013 for colour fastness
3.7 Satra test report	SPC0219613/1345, 2014-01-17 LOXY 9201	Retroreflective materials meet the requirements of EN ISO 20471:2013



3.8 FIOH test record	Assessment of the design and measurements of areas, 2015-05-25, 2015-08-11	Jacket 35924 in size XS meets the minimum area requirements of class 2 as defined in EN ISO 20471:2013, reflex 0.17 m ² , fluorescent 0.59 m ² . Jacket 35928 in size XS meets the minimum area requirements of class 3, reflex 0.20 m ² , fluorescent 0.80 m ²
3.9 Draft information sheet	EN 471/20471 High Visibility, Synfiber Workwear	Document meets the requirements of Directive 89/686/EEC, EN ISO 13688:2013 and EN ISO 20471:2013
3.10 Product markings	Draft for label	Marking meets 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	Product quality control pointers, Synfiber Workwear	Adequate to category II products