



Finnish Institute of
Occupational Health

FIOH

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

EC TYPE EXAMINATION CERTIFICATE

15272FHS01rev2

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

Hagan, Norway

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

Helsinki, 9 October 2017
Expiry date: 8 October 2022

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This certificate comprises 3 pages and an appendix.
This certificate replaces certificate 15272FHS01rev1, 2015-12-22.

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



1. Applicant

Synfiber AS
Brennaveien 6
N-1481 Hagan
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 one of the following alternative qualities:

- LOXY 9201 Silver (Loxy AS, Norway)
- 3M™ Scotchlite™ Reflective Material 8912 Silver Fabric.

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 15272FHS01rev2.



Technical documentation regarding EC type examination certificate 15272FHS01rev2

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, Brennavæien 6, N-1481 Hagan, Norway

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	2015-05-18 Update request, e-mail, 2015-12-21 Update request, e-mail, 2017-09-26	
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 3.1-3.11	
3.1 FIOH assessment of relevant Directive basic requirements	2017-10-09	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 FIOH test report	No. 336140T02, 2016-11-04 LOXY 9201	Retroreflective material meets the requirements of EN ISO 20471:2013 (70 domestic wash cycles at 60°C)
3.8 FIOH Certificate of Test	No. 270140A01, 2014-12-02 3M™ Scotchlite™ Reflective Material 8912	Retroreflective material meets the requirements of EN ISO 20471:2013 (60 domestic wash cycles at 60°C)



3.9 FIOH test record	Assessment of the design and measurements of areas, 2015-05-25, 2015-08-11	Jacket 35924 meets the requirements of class 2 and jacket 35928 of class 3 as defined for minimum areas of visible materials in EN ISO 20471:2013 Areas of visible materials in samples: <ul style="list-style-type: none">• Jacket 35924, size XS: reflex 0.17 m², fluorescent 0.59 m²• Jacket 35928, size XS: reflex 0.20 m², fluorescent 0.80 m²
3.10 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
3.11 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