



Finnish Institute of
Occupational Health

FIOH

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

EC TYPE EXAMINATION CERTIFICATE

17198GHS01

for high visibility clothing
as defined in EN ISO 20471:2013
class 1 for minimum areas of visible materials

7001 883 2608 – 2613

Warnschutzjacke X-treem / X-treem 20471 Jacket
Synfiber AS
Hagan, Norway

This product complies with Directive 89/686/EEC,
as amended

Helsinki, 7 July 2017
Expiry date: 6 July 2022

Erja Tammela
Senior Specialist

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Specialist



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

Class 1 for minimum areas of visible materials

Name: 7001 883 2608 – 2613 Warnschutzjacke X-treem / X-treem 20471 Jacket

Size range: XS ->

Description: Jacket is partly made of a fluorescent orange woven fabric, which can be one of the following alternative qualities:

- art. 81032, 66% PES 34% EME, 185 g/m² (Schoeller Textil AG, Switzerland)
- art. 81092, 100% EME, 215 g/m² (Schoeller Textil AG, Switzerland).

Non-fluorescent materials are:

- black woven fabric, quality HY-C02674, 100% PES, 180 g/m² (Hyosung Corp., Korea)
- black/grey knitted fabric, art. N00101, 47% PES 28% PA 25% EL (Riedel Textil GmbH, Germany)
- black woven fabric, art. 81510, 57% PA 40% ceramic/resin 3% EL, 305 g/m² (Schoeller Textil AG, Switzerland).

Retroreflective material is one of the following alternative qualities:

- silver LOXY 9201 (Loxy AS, Norway)
- 3M™ Scotchlite™ 8912 Silver Fabric
- B2067 (ESA Reflex (Shanghai) Co. Ltd., China).

Manufacturer: Prowork-Latino Confecções Lda., Portugal or SRC Brasa Ltd., Latvia

Pictures of the product 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 product have been tested in accordance with a harmonized European standard EN ISO 20471:2013 by accredited testing laboratories. The model of the product supplied by the applicant conforms to the technical documentation.



4. Compliance with basic health and safety requirements

The product and the technical documentation relating to it complies 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 this type examined product must be brought to the attention of FIOH.

Pictures of the product

7001 883 2608 – 2613 Warnschutzjacke X-treem / X-treem 20471 Jacket



Appendix 1. Technical documentation

End of EC type examination certificate 17198GHS01.



Technical documentation regarding EC type examination certificate 17198GHS01

Product name: 7001 883 2608 – 2613 Warnschutzjacke X-treem / X-treem 20471 Jacket

Applicant: Synfiber AS, Brennaveien 6, N-1481 Hagan, Norway

Item of technical documentation	Document identification	Assessment
1. Application for the EC type examination	2017-07-07	
2. Product drawing, construction, and material list	Photos and sample of the product Material list, X-Treem Jacket	Product is 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	2017-07-07	The applied harmonised standards EN ISO 13688:2013 and EN ISO 20471:2013 support the relevant requirements
3.2 STFI certificates	No. Z 6113/14 – 7557/14, 2014-08-14 Art. 81032, HV Orange 25040 No. Z 6296/14 – 7739/15, 2015-01-16 Art. 81092, HV Orange 25040	Fluorescent materials and colours meet the requirements of EN ISO 20471:2013
3.3 Intertek test report	No. KORT17047311, 2017-05-24 HY-C02674, Black	Non-fluorescent materials meets the requirements of EN ISO 20471:2013
3.4 SGS test report	No. F690101/LF-CTSAYSA17-07752, 2017-04-19 HY-C02674, Black	Non-fluorescent colour meets the requirements of EN ISO 20471:2013
3.5 FIOH test reports	No. 358928T01, 2017-06-14 N00101, Black No. 358768T01, 2017-06-12 81510, Black	Non-fluorescent materials and colours meet the requirements of EN ISO 20471:2013
3.6 FIOH test report	No. 336140T02, 2016-11-04 LOXY 9201	Retroreflective material meets the requirements of EN ISO 20471:2013 (70 wash cycles at 60°C)
3.7 FIOH Certificate of Test	No. 270141A01, 2014-12-02 3M™ Scotchlite™ 8912 Silver Fabric	Retroreflective material meets the requirements of EN ISO 20471:2013 (60 wash cycles at 60°C)
3.8 SATRA test report	Ref: SPC0218408/1407/1, 2014-06-27 B2067	Retroreflective material meets the requirements of EN ISO 20471:2013 (100 wash cycles at 60°C)
3.9 FIOH test record	Assessment of the design and measurements of areas, 2017-05-12	Jacket meets the requirements of class 1 with and without detachable sleeves as defined for minimum areas of visible materials in EN ISO 20471:2013. Areas of visible materials in size XS: with sleeves: reflex 0.19 m ² , fluorescent 0.43 m ² without sleeves: reflex 0.11 m ² , fluorescent 0.25 m ²
3.10 Draft information sheet	STIHL High Visibility Warning Clothing	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, X-Treem Jacket, 2017-07-07	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	SGS Certificate of Registration, EN ISO 9001:2008, 2015-04-16 Latino Confecções Lda A brief description on our Quality Control Procedures, 2014-04-16 Prowork, Latino Confecções Lda Bureau Veritas Certification, EN ISO 9001:2009, 2015-06-12 EN ISO 14001:2005, 2016-05-29 SRC Brasa	Adequate to category II product



Konformitätserklärung

Diese Konformitätserklärung gilt nur für die Länder der Europäischen Union.

Konformitätserklärung des Herstellers (übereinstimmt mit der Richtlinie 89/686/EEC)

Der Hersteller,

Synfiber AS
Brennaveien 6
NO-1481 Hagan

erklärt hiermit, dass die nachstehend beschriebene neue PSA

Typ: **Warnschutz-Jacke, ADVANCE X-TREEm**
Marke: **STIHL®**
Artikelnummer: **7001 883 26..**

übereinstimmt mit den Bestimmungen der Richtlinie 89/686/EEC.

Das Erzeugnis, entwickelt und gefertigt in Übereinstimmung mit der folgenden Norm:

EN ISO 20471:2013, DIN EN 13688

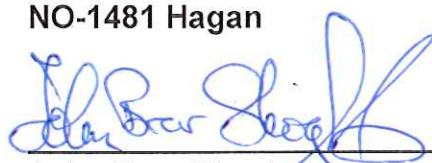
ist identisch mit der PSA für die EU-Konformitätsbescheinigung.

Prüfnummer: **17198GHS01 / July 7, 2017**

Prüfinstitut: **FIOH – Finnish Institute of Occupational Health**
Topeliuksenkatu 41b
FI-00250 Helsinki

Oslo, 08.12.2017

Synfiber AS
Brennaveien 6
NO-1481 Hagan


John Bror Skoglund
Managing Director



Synfiber AS
NO 957 539 637 MVA



Declaration of Conformity

This Declaration of Conformity applies only in the countries of the European Union.

Certificate of Conformity (in accordance with the Directive 89/686 / EEC)

The manufacturer,

Synfiber AS
Brennaveien 6
NO-1481 Hagan

declares herewith that the new PPE described below

Category: **high-visibility jacket, ADVANCE X-TREEm**
Brand: **STIHL®**
Article Number: **7001 883 26..**

is in conformance with the Directive 89/686/EEC.

The product is developed and manufactured in compliance with the following standard:

EN ISO 20471:2013, DIN EN 13688

and is identical to the PPE for which the EU type examination certificate.

Certificate Number: **17198GHS01 / July 7, 2017**

Test Institute: **FIOH – Finnish Institute of Occupational Health**
Topeliuksenkatu 41b
FI-00250 Helsinki

Oslo, 08.12.2017

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