



Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE

14061GRS01rev1

for high visibility clothing  
as defined in EN ISO 20471:2013,  
class 2 for minimum areas of visible materials

**College Genser**  
**art. 35923 6 00-07 Yellow/black,**  
**art. 35923 5 00-07 Orange/black**  
Synfiber AS  
Oslo, Norway

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

Helsinki, 12 December 2016  
Expiry date: 11 December 2021

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Specialist

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S039 (EN 45011)  
(ISO/IEC Guide 65)

This certificate comprises 3 pages and an appendix.  
This certificate replaces certificate 14061GRS01, 2014-03-11

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



## 1. Applicant

Synfiber AS  
Professor Birkelandsvej 35  
N-1081 Oslo  
Norway

## 2. Description and identification of the products

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

Class 2 for the minimum areas of visible materials

Name: College Genser art. 35923 6 00-07 Yellow/black, art. 35923 5 00-07 Orange/black

Size range: XS ->

Description: College shirt is made of a fluorescent yellow or orange Polar fleece fabric, 100% PES, 280 g/m<sup>2</sup> (John Stit Co Ltd, Thailand). Non-fluorescent material is the same quality in black.

Retroreflective material is Loxy 9901 Silver (Loxy AS, Norway).

Manufacturer: Sonny Tex Co. Ltd, Thailand

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.

## 4. Compliance with basic health and safety requirements

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



Pictures of the product

College Genser art. 35923 6 00-07 Yellow/black, art. 35923 5 00-07 Orange/black



Appendix 1. Technical documentation

End of EC type examination certificate 14061GRS01rev1.



**Technical documentation regarding EC type examination certificate 14061GRS01rev1**

Product name: College Genser art. 35923 6 00-07 Yellow/black, art. 35923 5 00-07 Orange/black

Applicant: Synfiber AS, Professor Birkelandsvej 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	2014-02-26 Update request, 2016-12-07	
2. Product drawing, construction, and material list	Product drawings Dimensions specification Sweat shirt Data sheet Hi-vis EN 471 Sweatshirt	Product is described 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	2016-12-12	The applied harmonised standards EN ISO 13688:2013 and EN ISO 20471:2013 support the relevant requirements
3.2 BTTG test report	Certificate of Test No. 13587/00307/PJH, 2008-12-03 18591/A/00797/PJH, 2013-10-10 100% Polyester Fleece, HV Yellow Certificate of Test No. 13564/00304/PJH, 2008-11-27 18591/B/00798/PJH, 2013-10-10 100% PES Polar Fleece, HV Orange	Material and fluorescent colours meet the requirements of EN ISO 20471:2013 for a knitted background material (25 washes at 60°C)
3.3 SGS test report	No. 2649615, 2014-02-21 No. 2649630, 2014-02-21 100% PES fleece, black	Non-fluorescent colour meets the requirements of EN ISO 20471:2013 for colour fastness
3.4 Hohenstein Certificate	Oeko-Tex Standard 100 Certificate No. 08.PE.57165, 2016-03-09 John Stit Co., Ltd. Knitted and fleece fabrics made of polyester	Material meets the innocuousness requirements of EN ISO 13688:2013
3.5 Satra test report	Ref: SPC0218279/1338/1, Issue 2 2013-11-06 Quality 9901, Silver	Material meets the requirements of EN ISO 20471:2013 (100 x 60°C, 50 x 75°C)
3.6 Swerea IVF Certificate	Oeko-Tex Standard 100 Certificate No. Ö 05-136, 2016-06-02 Loxy AB	Retroreflective material meets the innocuousness requirements of EN ISO 13688:2013
3.7 FIOH test record	Assessment of the design and measurement of areas, 2014-03-10	College jacket meets the requirements of class 2 as defined in EN ISO 20471:2013. In size XS area of reflective material 0.18 m <sup>2</sup> , area of fluorescent material 0.50 m <sup>2</sup>
3.8 Draft information sheet	EN ISO 20471 High Visibility Synfiber Workwear	Document meets the requirements of the Directive, EN ISO 13688:2013 and EN ISO 20471:2013
3.9 Product markings	Drafts of markings	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	Product quality control pointers, Synfiber Workwear	Adequate for category II products