



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

# EC TYPE EXAMINATION CERTIFICATE EXTENSION

23367S03

for high-visibility warning clothing  
as defined in EN 471:1994

**Trousers 210, Coverall 206, Jacket 226**

**Pilot with hood 437,**

**Winter trousers 440, Winter coverall 415, Shorts 212**

**Parkas 435**

Synfiber Konfeksjon A/S  
Oslo, Norway

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

Helsinki, 23 August 2005

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Director of the Department

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This certificate extension comprises 3 pages, of which this is the first one.



## 1. Applicant

Synfiber Konfeksjon A/S  
Box 12 Leirdal  
N-1008 Oslo  
Norway

## 2. Description and identification of the product

Type: High-visibility warning clothing as defined in EN 471:1994

Coveralls, pilot jacket and parkas class 3, jacket 226 class 2, trousers and shorts class 1 for minimum areas of visible materials, and class 2 for performance of retroreflective material

Name: Trousers 210, Coverall 206, Jacket 226, Pilot with hood 437,  
Winter trousers 440, Winter coverall 415, Shorts 212  
Parkas 435

Description: Garments can be made using the following optional fluorescent materials:

Klopman International Sri, Italy:

- H.V. Luminex Yellow 153004, 85% PES/15% CO, 310 g/m<sup>2</sup>
- H.V. Luminex Orange 171003, 85% PES/15% CO, 310 g/m<sup>2</sup>
- H.V. Luminex Red 301016, 85% PES/15% CO, 310 g/m<sup>2</sup>

Sofitex Group, Belgium

- quality 6408 Yellow, 67% PES/33% CO, 235 g/m<sup>2</sup>

DMC, France:

- quality 4990, 55% modacrylic/45 % CO, 295 g/m<sup>2</sup>

Finlayson Forssa Oy, Finland

- Viking 0104, Yellow, 70% PES/30% CO, 230 g/m<sup>2</sup>
- Viking Brilliant 5114, Orange, 86% PES/16% CO, 260 g/m<sup>2</sup>

Carrington Viyella, England:

- Tomboy, Yellow, 67% PES/33% CO, 245 g/m<sup>2</sup>

Coating applications Group, UK:

- quality 3613 Yellow and Orange, PU-coated PES-fabric, 150 g/m<sup>2</sup>
- quality 5454 Yellow, PU-coated PA-fabric, 195 g/m<sup>2</sup>
- quality 3657 Yellow and Orange, PU-coated PES-fabric, 160 g/m<sup>2</sup>

IBS Intertech Co., Ltd, Korea:

- IBS EN471 Twill Yellow and Orange, 84% PES/16% CO, 420 g/m<sup>2</sup>

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*Optional retroreflective materials:*

- 3M Scotchlite 9910 Silver
- 3M Scotchlite 8910 Silver

Manufacturer: Zhejiang Huaxing Garments Go. Ltd, China

Pictures of the products are as previously in type-examination certificate 23367S01, the picture of the new product, parkas 435, is on page 3.



### 3. Modifications to the original product

Manufacturer of the garments is changed. A new product, parkas 435, is added to the collection.

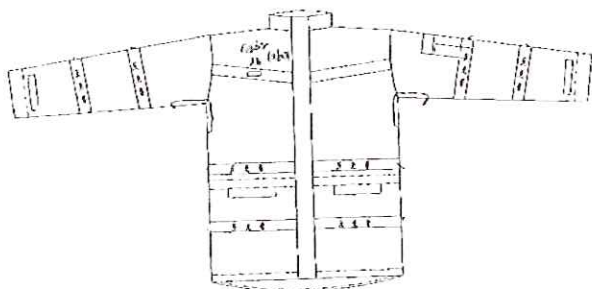
### 4. Adequacy and validity of the technical documentation

The documents referred to and assessment in EC type examination certificate 23367S01 do apply. A new product has been assessed in accordance with a European harmonized standard EN 471:1994 as documented in Appendix 1. The model of the product supplied by the applicant conforms to the technical documentation.

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.

#### Appendix 1. Technical documentation

Picture of parkas 435



End of EC type examination certificate extension 23367S03.



**Technical documentation regarding EC type examination certificate extension 23367S03**

Product name: Trousers 210, Coverall 206, Jacket 226, Pilot with hood 437,  
Winter trousers 440, Winter coverall 415, Shorts 212  
Parkas 435

Applicant: Synfiber Konfeksjon A/S, Box 12 Leirdal, N-1008 Oslo, Norway

| <i>Item of technical documentation</i>                              | <i>Document identification</i>                                              | <i>Assessment</i>                                                                              |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. Application for the EC type examination                          | 2005-08-15                                                                  | Received 2005-08-19                                                                            |
| 2. Product drawing, construction, and material list                 | Drawing of the product<br>Product description, material list                |                                                                                                |
| 3. Compliance with Directive 89/686/EEC relevant basic requirements | The compliance assessment is based on reports mentioned below items 3.1-3.3 |                                                                                                |
| 3.1 FIOH assessment of relevant Directive basic requirements        | 2005-08-23                                                                  | The applied harmonised standards EN 340:1993 and EN 471:1994 support the relevant requirements |
| 3.2 FIOH test record                                                | Assessment of the design and measurement of areas, 05-08-23                 | Parkas meet the area requirements of class 3 as defined in EN 471:1994                         |
| 3.3 Product markings                                                | Draft of marking, received 05-08-19                                         | Marking meets the requirements of EN 340:1993 and EN 471:1994                                  |