



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

EC TYPE EXAMINATION CERTIFICATE

16381DFS01

for high visibility clothing
as defined in EN ISO 20471:2013,
art. 1-87, 1-88 and 500021 class 2,
art. 500031 and 1-78 class 3

Safety Vests

Art. 1-87, 1-88, 500021, 500031 and 1-78

Ocean Textile Group A/S
Herning, Denmark

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

Helsinki, 24 October 2016
Expiry date: 23 October 2021

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This certificate comprises 3 pages and an appendix.

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



1. Applicant

Ocean Textile Group A/S
HI-Park 387
DK-7400 Herning
Denmark

2. Description and identification of the product

Type: High visibility clothing as defined in EN ISO 20471:2013
Safety Vests 1-87, 1-88, and 500021 class 2 for minimum areas of visible materials
Safety Vests 500031 and 1-78 class 3 for minimum areas of visible materials

Name: Safety Vests Art. 1-87, 1-88, 500021, 500031 and 1-78

Size range: Safety Vests 1-87 and 1-78: S ->
Safety Vests 1-88, 500021, 500031: M ->

Description: Vests are made of a fluorescent yellow or orange knitted fabric quality,
YD-014/015, 100% PES, 125/130 g/m² (Haining City Yueda Warp Knitting Co., Ltd.,
China).
Retroreflective material is silver CSR-1303 (Hangzhou Chinastars Reflective Material
Co. Ltd., China).

Manufacturer: Ocean Textile Group A/S, HI-Park 387, DK-7400 Herning, Denmark

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, last amended by 96/58/EC.

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 (in one colour)

Safety Vest Art. 1-87



Safety Vest Art. 1-88



Safety Vest Art. 500021



Safety Vest Art. 500031



Safety Vest Art. 1-78



Appendix 1. Technical documentation

End of EC type examination certificate 16381DFS01.



Technical documentation regarding EC type examination certificate 16381DFS01

Product name: Safety Vests Art. 1-87, 1-88, 500021, 500031 and 1-78

Applicant: Ocean Textile Group A/S, HI-Park 387, DK-7400 Herning, Denmark

| <i>Item of technical documentation</i> | <i>Document identification</i> | <i>Assessment</i> |
|---|--|--|
| 1. Application for the EC type examination | 2016-08-23 | |
| 2. Product drawing, construction, and material list | Samples of the products | Products are identified |
| 3. Compliance with Directive 89/686/EEC relevant basic requirements | The compliance assessment is based on reports mentioned below items 3.1-3.6 | |
| 3.1 FIOH assessment of relevant Directive basic requirements | 2016-10-24 | The applied harmonised standards EN ISO 13688:2013 and EN ISO 20471:2013 support the relevant requirements |
| 3.2 TÜV test reports | No. 15064513 001, 2013-09-17 No. 15080618 001, 2015-03-09 YD-014, HV Yellow YD-015, HV Orange | Fluorescent material and colours meet the requirements of EN ISO 20471:2013 (25 washes at 40°C) |
| 3.3 SATRA test report | Ref. SPC0218053/1338, 2013-09-19 Reflective Material CSR-1303 | Retroreflective material meets the requirements of EN ISO 20471:2013 (50 washes at 60°C) |
| 3.4 FIOH test record | Assessment of the design and measurement of the areas, 2016-09-30 and 2016-10-04 | Vests 1-87, 1-88 and 500021 meet the requirements of class 2 and vests 500031 and 1-78 of class 3 as defined for minimum areas of visible materials in EN ISO 20471:2013. Areas of reflective and fluorescent materials in samples: <ul style="list-style-type: none"> • 1-87, size S: 0.13 m², 0.72 m² • 1-88, size M: 0.20 m², 0.69 m² • 500021, size M: 0.19 m², 0.56 m² • 500031, size M: 0.21 m², 0.91 m² • 1-78, size S: 0.32 m², 1.14 m² |
| 3.5 Draft information sheet | Ocean Manual for article number <ul style="list-style-type: none"> • 1-87, 1-88, 500021 • 1-78, 500031 | Documents meet the requirements of the Directive 89/686/EEC, EN ISO 13688:2013 and EN ISO 20471:2013 |
| 3.6 Product markings | Care labels <ul style="list-style-type: none"> • 1-87, 1-88, 500021 • 1-78, 500031 | 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 | Quality control system, Ocean Textile Group | Adequate to category II products |