

EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED041222WS/003

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.

 $MED Item N^o$ MED/3.3a

Description Fire-fighter's outfit: protective clothing (close proximity

clothing): (a) Protective non reflective clothing for fire fighting

Type HYXF-C3

Applicant JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD

NO.8 HUANGJINTANG WEST ROAD, ECONOMIC DEVELOPMENT ZONE

DANYANG CITY, JIANGSU PROVINCE

CHINA

Testing standards EN 469 (2005) including A1(2006) and AC(2006)

Reference standards Reg. II-2/10 of SOLAS '74 as amended, IMO Res. MSC.36(63)-(1994 HSC

Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res.

MSC.98(73)-(FSS Code) 3.

Issued in SHANGHAI on

March 27, 2022

This Certificate is valid until August 25, 2024

This Certificate consists of this sheet plus an attachment

Hai Wen Zhang

RINA Services S.p.A.



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Manufacturer

JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD

Place of Manufacturer
NO.8 HUANGJINTANG WEST ROAD
ECONOMIC DEVELOPMENT ZONE
DANYANG CITY
JIANGSU PROVINCE
CHINA

Name & place of Authorised Representative MRS. ANITA WESLING KARL-LEGIEN-STR.2, 45356 ESSEN, GERMANY GERMANY

Product Description

Fire-fighter's outfit (Protective Clothing, Type: HYXF-C3), comprising jacket and trousers to be use only against radiant heat.

Material Main Characteristics

Fabric Assembly:

Type of Four Layer Flame-Retardant Compound Fabric, manufactured by SRO Group (China) Limited with detail as below:

- Outer Fabric: SXBD602, 93% m-aramid, 5% p-aramid, 2% anti-static, 210 g/m²
- Moisture Barrier: 65% aramid needlefelt, 20% PTFE, 15% PU, 105 g/m²
- Thermal Barrier: 90% m-aramid, 10% p-aramid, 150 g/m²
- Lining Fabric: XV343, 50% m-aramid, 50% FR Viscose, 120 g/m²

Levels of Performance:

Heat transfer- Flame: LEVEL Xf2; Heat transfer- Radiation: LEVEL Xr2;

Resistance to water penetration (Moisture Barrier): LEVEL Y2; Resistance to water penetration (Seamed Specimen): LEVEL Y2;

Water Vapour Resistance: LEVEL Z2.

Reference Documents

- Component List, issued by Jiangsu Huayan Marine Equipment Co., Ltd and approved by RINA with No. SHFP-10136;
- User's Manual, issued by Jiangsu Huayan Marine Equipment Co., Ltd and approved by RINA with No. SHFP-10137;
- HYXF-C3 Technical Drawing, issued by Jiangsu Huayan Marine Equipment Co., Ltd and approved by RINA with No. SHFP-10204;
- Labeling, issued by Jiangsu Huayan Marine Equipment Co., Ltd and approved by RINA with No. SHFP-10205;
- Technical Specification, issued by Jiangsu Huayan Marine Equipment Co., Ltd and approved by RINA with No. SHFP-10206.

RINA Services S.p.A. Via Corsica, 12 - 16128 Genova Tel +39 010 53851 Fax +39 010 5351000



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Test Report

- Confidential Report (Ref No.30/05668/1), issued by BTTG Testing & Certification Limited and filed by RINA with No. SHFP-10138;
- Test Report of the HYXF-C3 Protective Clothing Hardware, issued by Jiangsu Huayan Marine Equipment Co., Ltd and filed by RINA with No. SHFP-10139;
- Test Report of the HYXF-C3 Protective Clothing (Supplementary),issued by Jiangsu Huayan Marine Equipment Co., Ltd and filed by RINA with No. SHFP-10202;
- Firefighter Protective Clothing Routing Test Report (HYXF-C3) (Ref No.: 20220224004), and filed by RINA with No. SHFP-19750.

Remarks

The product or packing is to be marked with name of manufacturer and type designation according to EN 469, Par. 7 and the MED Mark of Conformity.

Additional information as specified in EN 340 shall be supplied by the manufacturer in the official language(s) of the state of destination.

The protective suit is not designed to be used for entering into fire.

Storage, handling, cleaning, use and restrictions for use to be in accordance with the manufacturer's instructions.

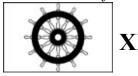
Note

Our review is based on Previous Certificate issued on March 20, 2017 (Ref No.MED011917WS). As declared by manufacturer, renewal of the initial certificate, without modification, and reissued accordingly.



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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YYYY The year in which the mark is affixed

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Hai Wen Zhang	