



**EC TYPE EXAMINATION (MODULE B)**  
**CERTIFICATE No. MED080718WS/002**

*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 Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2018/773.*

*MED Item N°*

**MED/1.5b**

*Description*

**Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket: (b) immersion suit with inherent insulation**

*Type*

**HYF-N6-O, HYF-N6-R, HYF-N6-Y, HYF-N6-OG**

*Applicant*

**JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD**

**NO.8 HUANGJINTANG WEST ROAD, ECONOMIC DEVELOPMENT ZONE  
DANYANG CITY, JIANGSU PROVINCE**

**CHINA**

*Testing standards*

**IMO Res. MSC 81(70) as amended**

*Reference standards*

**SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/32, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046.**

*Issued in SHANGHAI on*  
**June 25, 2018**

*This Certificate is valid until*  
**June 24, 2023**

*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

**Product Description**

The HYF-N6 Serials Immersion Suit (Type: HYF-N6-O, HYF-N6-R, HYF-N6-Y, HYF-N6-OG) is an insulated Immersion Suits, designed to be worn with a lifejacket.

- HYF-N6-O, Body Color: Orange, with Conjoined Type Gloves;
- HYF-N6-R, Body Color: Red, with Conjoined Type Gloves;
- HYF-N6-Y, Body Color: Yellow, with Conjoined Type Gloves;
- HYF-N6-OG, Body Color: Orange, with Separation Type Gloves, with Built-in Latex Gloves.

And it is manufactured in three sizes:

- XL size: Max. height 2.05 meter;
- L size: Max. height 1.90 meter;
- M size: Max. height: 1.70 meter.

The suit covers the whole body (feet and hands included) except the face.

**Material and Components**

Item	Model	Type	Manufacturer
Fabric Material	Neoprene	-	Changzhou Chengjiali Polymer Materials Co., Ltd; DongGuan Nam Liong Rubber Products Co., Ltd
Watertight Zipper Closure	-	65 cm TPU	Wuxi Hailong Airtight Technology Co., Ltd; Jiaxing Kinsealed Zipper Co., Ltd
Sewing Thread	Polyester High Strength Yarn	190D	Danyang Shiqiang Knitting Technology Co., Ltd; Dangyang Jianying Thread Factory
Retro-reflective Tape	5 cm	-	TISS; 3M Daoming Optics & Chemical Co., Ltd

**Design Assessment**

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production tests shall be conducted for each suit in accordance with IMO Res. MSC.81(70), part 2.



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**Reference Documents**

- Instruction Manual, edit by Jiangsu Huayan Marine Equipment Co., Ltd and filed by RINA with No.: SHFP-11715;
- Technical Drawings, edit by Jiangsu Huayan Marine Equipment Co., Ltd, approved by RINA with No.: SHFP-11712;
- Component List, edit by Jiangsu Huayan Marine Equipment Co., Ltd, approved by RINA with No.: SHFP-11711;
- Technical Standard, edit by Jiangsu Huayan Marine Equipment Co., Ltd, approved by RINA with No.: SHFP-11710.

**Test Report**

The product has been tested in accordance with the Revised Recommendation on Testing of Life-saving appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80), IMO Res. MSC.226(82) and IMO Res. MSC.323(89).

- Evaluation and Test Report (Type: HYF-N6-R, HYF-N6-O &HYF-N6-Y) (Ref No.: 2017178), issued by Wuhan Testing Center of Marine Life-saving Appliances and filled by RINA with No.:SHFP-11713;
- Evaluation and Test Report (Type: HYF-N6-OG) (Ref No.: 2017179), issued by Wuhan Testing Center of Marine Life-saving Appliances and filled by RINA with No.:SHFP-11714.

**Remarks**

The immersion suit can be equipped with different Retro-reflective materials EC Type Approved in compliance with Directive 2014/90/EC as amended.



*WV*

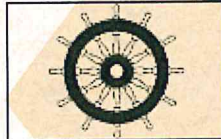






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*The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written 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 reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



*Zhang Hai Wen*  
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Hai Wen Zhang

