

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008EC

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

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

with type designation(s)
HYF-6-R / HYF-6-Y / HYF-6-RG

Issued to

Jiangsu Huayan Marine Equipment Co., Ltd.
Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2023/1667**,

item No. MED/1.5b. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8, IMO Res. MSC.481(102), IMO MSC/Circ.1046, IMO MSC.1/Circ.1628

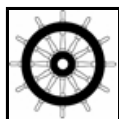
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-12-03**.

Issued at **Hamburg** on **2023-12-04**

DNV local unit:
Nanjing NB & CMC

Approval Engineer:
Tessa Biever



Notified Body
No.: **0098**



for **DNV GL SE**

Digitally Signed By:
Christine Mydlak-Röder
Location: DNV GL SE,
Hamburg, Germany

Mydlak-Röder, Christine
Head of Notified Body

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

'HYF-6-R / HYF-6-Y / HYF-6-RG'

Are insulated immersion suits made of neoprene with gloves and buddy line. The light needs to be attached to the lifejacket to be worn in conjunction with the immersion suit. The suit is manufactured in three variants/colors:

1. HYF-6-R (fluorescent red)
2. HYF-6-Y (fluorescent yellow)
3. HYF-6-RG (fluorescent red / detachable gloves)

The suit is available in the following sizes:

- M (length 150 cm - 170 cm)
- L (length 170 cm - 190 cm)
- XL (length 190 cm - 205 cm)

Main materials:

Object	Type	Material	Manufacturer
Main fabric	CR	Neoprene > 5 mm thick	Changzhou Chengjiali Polymer Materials Co., Ltd. DongGuan Nam Liong Rubber Products Co., Ltd. Zhenjiang Zhongxin Sports Goods Co., Ltd. Yibao (Fujian) Polymer Material Stock Co., Ltd
Main zipper	L= 65 cm	NBR Coating	Wuxi Hengli Sealing Technology Co., Ltd. Jiaxing Kinsealed Zipper Co., Ltd.
Buoyancy material	CR	Neoprene > 5 mm thick	Changzhou Chengjiali Polymer Materials Co., Ltd. DongGuan Nam Liong Rubber Products Co., Ltd. Yibao (Fujian) Polymer Material Stock Co., Ltd

Application/Limitation

Immersion suit is to be worn with a lifejacket approved in accordance with the Marine Equipment Directive.

Position indicating light and retro-reflective materials shall be approved in accordance with the Marine Equipment Directive and bear the MED Mark of Conformity.

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

Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), part 2.

Type Examination documentation

Drawings	Date
HYF-6-RG-000 V1.0	2023-04-04
HYF-6-R-000 V1.0	2023-04-04
HYF-6-Y-000 V1.0	2023-04-04
Test reports	Date
Test report No. 2023065 for HYF-6-R from Wuhan Testing Center of Marine life Saving Appliances, Wuhan, China.	2023-05-04 ~ 2023-07-15
Test report No. 2023066 for HYF-6-Y from Wuhan Testing Center of Marine life Saving Appliances, Wuhan, China.	2023-05-04 ~ 2023-07-16
Test report No. 2023067 for HYF-6-RG from Wuhan Testing Center of Marine life Saving Appliances, Wuhan, China.	2023-05-04 ~ 2023-07-18
Other	Date
Operations manual – Instruction manual V1.0	2023-04-04
Materials and component list V1.0	2023-07-25

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(81), IMO Res. MSC.226(82), IMO Res. MSC.323(89) and IMO Res. MSC. 481(102) Type II.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, dimensions, date of manufacture and the MED Mark of Conformity (see page 1).

The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.