

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 WITHOUT a lifejacket:
Immersion suit with inherent insulation**

with type designation(s)
HYF-2, Pillow type, Full CR material

Issued to

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

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

Regulation **(EU) 2018/773,**

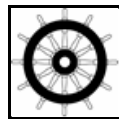
item No. MED/1.6b. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code and 2000 HSC Code 8, IMO MSC/Circ.1046.

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

This Certificate is valid until **2024-07-08.**

Issued at **Hamburg** on **2019-07-09**

DNV GL local station:
Nanjing



for **DNV GL SE**

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-009481-1**
Certificate No: **MEDB00005J1**

Product description

The "HYF-2" is an insulated immersion suit fitted with lifting loop, lifejacket light and lifeline. The suit and gloves are made of waterproof neoprene. The suit has orange colour is available in 3 sizes: XL, L and M.

Main fabric	CR neoprene from Changzhou Chenjiali Polymer Materials Co.,Ltd. or DongGuan Nam Liong Rubber Products Co.,Ltd.
Main zipper	Wuxi Hailong Airtight Technology Co.,Ltd.

For further details please see under Type Examination documentation.

Application/Limitation

"HYF-2" is approved to be used without a lifejacket.

Position indicating light and retro-reflective materials shall be approved in accordance with the Marine Equipment Directive and be "wheelmarked".

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

Type Examination documentation

This certificate is based on the previous EC Type Examination Certificate 75982-09 HH issued by DNV GL on 2014-10-20.

The following documentation is basis for the DNV GL approval:

- Test report from Wuhan Marine Lifesaving Equipment Quality Inspection Center: No. 2004056 dated 2005-02-01, No. 2009027 dated 2009-05-26, No. 2013103 dated 2013-10-10 and No. 2017176 dated 2018-01-16.
- Evaluation and Test Report: GL-Jiangyin, dated 2015-01-10
- General arrangement drawing: HYF-2-00 Immersion Suits (insulated) HYF-2 XL L M

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) and IMO Res. MSC.323(89).

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, dimensions and date of manufacture. The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.