# TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MERB0000913**
Revision No:
**0**

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

## 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)
**RSF-IV /MAS III**

Issued to
## Jiaxing Rongsheng Lifesaving Equipment Co., Ltd.
**Jiaxing City**, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 8,**
**item No. UK/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 **2025-12-20**.

Issued at **London** on **2024-06-11**

for **DNV UK Ltd.**

DNV local unit:
**Shanghai**

Approval Engineer:
**Roland Priebe**

Approved Body No.: **0097**

**Mydlak-Röder, Christine**
**MER Service Responsible**

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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

'RSF-IV /MAS III'
The Immersion Suit (Type: RSF-IV / MAS-III) is an insulated suit designed to be worn with a lifejacket. It is manufactured in four sizes:

1. XL size: max. height 2.1 m, max. chest girth 1.27 m.
2. L size: max. height 1.95 m, max. chest girth 1.25 m.
3. M size: max. height: 1.80 m, max. chest girth 1.19 m.
4. S size: max. height: 1.65 m, max. chest girth 1.13 m.

Body Color: Orange, with separated type Gloves.

The suit covers the whole body (feet and hands included) except the face, with the following main components:

| Material | Type | Manufacturer | Color (s) standard |
|---|---|---|---|
| Main fabric | Compound rubbered | Changzhou Chengjiali Polymer Materials Co., Ltd | Length 3.3 m Width 1.3 m |
| Watertight Zipper Closure | Copper Teeth | Wuxi Hailong Airtight Technology Co., Ltd | Length 67cm |
| Webbing | Polyester | Pinghu Sanjun Belting Co., Ltd | Width 3.8 cm |
| Gloves | Rubber | Linyi Heng On Labor Protection Products Co., Ltd | Length 260 cm |
| Shoes Bottom | Rubber | Linyi Heng On Labor Protection Products Co., Ltd | Length 302 cm |
| Retro-reflective Tape | DM101A | Daoming Optics & Chemical Co., Ltd | Width 5 cm |
| Nameplates | Polyester | Haining Liansheng Huaqing Co., Ltd | 10 x 5 cm |

For further details please see documents under Type Examination documentation.

## Application/Limitation

Immersion suit is to be worn with a lifejacket approved in accordance with the Maritime Equipment Regulation.
Retro-reflective materials shall be approved in accordance with the Maritime Equipment Regulation and bear the UK 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

Evaluation and Test Report No. 2018138 dated 08 January 2019 from Wuhan Testing Center of Marine Life-saving Appliances.
Inspection Report No. 2009YW175 dated 02 December 2010 from The National Supervision and Testing Center of Fishery Machinery and Instrument (oil resistance).

## 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 UK Mark of Conformity (see page 1). The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.