Certificate number: 65256/B0 MED
File number: ACI 7000/044/004
Item number: MED/3.38

This certificate is not valid when presented without the full attached schedule composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2024/1975 of 19 July 2024

This certificate is issued to:

LINGJACK ENGINEERING WORKS PTE LTD

No. 1, Woodlands Terrace, #03-01, Lingjack Industrial Building, 738471, Singapore, SINGAPORE

for the type of product

PORTABLE FIRE-EXTINGUISHING EQUIPMENT FOR LIFEBOATS AND RESCUE BOATS

COMBAT/LINGJACK/LJSAFE 6L WATER/ADDITIVE BASED EXTINGUISHERS TYPE C-6WMFA

Requirements:
Row 2 of 2 of Regulation (EU) 2024/1975:

SOLAS 74 convention as amended, Regulations III/4, III/34, X/3
IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93) and MSC.425(98) I, IV, V
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8
IMO Res. A.951(23)
EN 3-7:2004 incl. /A1:2007, EN 3-8:2021, EN 3-9:2006 incl. AC:2007 and EN 3-10:2009

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 11 Sep 2030

For Bureau Veritas Marine & Offshore Notified Body 2690,
At BV SINGAPORE, on 11 Sep 2025,
Shivananda Upadhya

This certificate was created electronically and is valid without signature

This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.
This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

COMBAT/LINGJACK/LJSAFE 6L WATER/ADDITIVE BASED EXTINGUISHERS TYPE C-6WMFA

Water	84.5% of total volume
Additive	0.5% of total volume of Orchidee "AFFF 1% TP" / 15% of total volume of Orchidee "Inilam AX"
Temperature Range of Use	+5 to +60 °C
Discharge Time	42.75 s
Propelling Gas	Nitrogen
Total Weight	10.7 kg
Pressure at maximum operating temperature (PTmax)	18 bar
Test Pressure (PT) (cylinder)	27 bar@ 30 s
Diameter	181 mm
Overall Height	602±10 mm
Hose Length	530 mm
Fire Class	21A/144B/75F

Other materials and/or components:

Cylinder	Steel 1.5 mm
Operating Valve	Copper Zinc Alloy
Rotor unit	PVC-U (outlet pipe) / PA 12 (inlet pipe) / PA 12 (rotor)
Hose	Black braided PVC
Head set	Plastic
Hook Bracket	Mild steel 3 mm

2. DOCUMENTS AND DRAWINGS:

2.1 - Design Drawings

ASSEMBLY DRAWING	20809267 Issue A dated 18/10/2019
VALVE ASSEMBLY	03013103 Issue D dated 10/04/2012
CYLINDER	03098200 Issue B dated 05/12/2022
ROTOR UNIT	03239749 Issue A dated 10/04/2019
HOSE	03002610 Issue A dated 11/04/2019
HEAD SET	03239423 / 2CSFH3-00.00/W3 Issue A dated 12/04/2012
HOOK BRACKET	03021700 Issue A dated 10/02/2009

2.2 - Installation, operation and maintenance instructions:
As per Manufacturer's document N° LJS-IOM-102 rev. G dated 06/04/2021

2.3 - Safety datasheets for the extinguishing media:
- MSDS "Orchidee AFFF 1% TP" dated 11/08/2017 from Orchidee Europe BVBA
- MSDS "Orchidee Inilam AX" dated 13/08/2018 from Orchidee Europe BVBA

2.4 - PFAS free declaration:
- Manufacturer's letter "Orchidex AFFF 1% TP Foam Concentrates - PFAS" dated 07/08/2024
- Manufacturer's letter "INILAM A & INILAM AX Water additive - PFAS" dated 07/08/2024

3. TEST REPORTS:

3.1 - Test report N°7191213713-MEC19/02-JT dated 20/11/2019, as per EN 3-7:2004 incl. /A.1:2007 and EN 3-8:2006, from TÜV SÜD PSB Pte. Ltd, Singapore.
3.2 - Test report N°7191332183-MEC24/04-FA dated 28/10/2024, as per EN 3-8:2021, from TÜV SÜD PSB Pte. Ltd, Singapore.

4. APPLICATION / LIMITATION:

4.1 - Manufacturer's instruction for maintenance and recharging the extinguishers should be kept on board.

4.2 - The extinguishers are to be installed according to manufacturer's instructions.

4.3 - The extinguisher is suitable for use on live electrical equipment up to 1000 V at 1 m.

4.4 - Due to the type of extinguishers covered by this certificate (i.e. extinguisher with cartridge), the standard EN 3-9:2006 incl. AC:2007 quoted in the requirements in front page is not applicable.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **LINGJACK ENGINEERING WORKS PTE LTD** has declared the following manufacturing site(s):

LINGJACK ENGINEERING WORKS PTE LTD
No. 1, Woodlands Terrace, #03-01
Lingjack Industrial Building
Singapore

5.3 - The manufacturer shall institute quality control procedure in order to ensure that the extinguisher "**C-6WMFA**" is produced in accordance with the requirements stated on the front page of this certificate and to keep records of any production tests carried out in accordance these requirements.

6. MARKING OF PRODUCT:

As per IMO Res. A.951(23), paragraph 8, EN standards and the provisions of the Directive:
1 - Model designation: C-6WMFA
2 - Manufacturer's name and address
3 - Type of fire for which the extinguisher is suitable, i.e. 21A/144B/75F
Suitable for use on live equipment up to 1000 V at 1 m.
4 - Type and quantity of extinguishing medium, i.e. water + 0.5% of Orchidee "AFFF 1% TP"+ 15% of Orchidee "Inilam AX"
5 - Propelling gas: N2
6 - Instruction for use and recharge (it is recommended that operating instructions be given in pictorial form, in addition to explanatory text in language understood by the likely user)
7 - Year of manufacture
8 - Temperature range over which the extinguisher will operate satisfactorily, i.e. +5 to +60 °C
9 - Test pressure, i.e.: 27 bar@30 s
10 - Reference is made to MED 2014/90/EU chapter 2.
In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

7.1 - It is **LINGJACK ENGINEERING WORKS PTE LTD**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the EC Type Examination Certificate N°65256/A0 MED issued on 03/06/2021 by the Society.

***** END OF CERTIFICATE *****