

# 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 Thermal protective aids**

with type designation(s)

**70461-LALIZAS Thermal Protective Aid "Alusafe-T" - LSA Code**

Issued to

**Lalizas Hellas S.A.**  
**Piraeus, Greece**

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

Regulation **(EU) 2019/1397,**

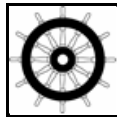
**item No. MED/1.7. SOLAS 74 as amended, Reg. III/4, III/22, III/32 & III/34, LSA Code and 2000 HSC Code 8, IMO MSC/Circ.1046.**

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

This Certificate is valid until **2025-08-02.**

Issued at **Hamburg** on **2020-08-03**

DNV GL local station:  
**Piraeus**



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **344.1-010828-1**  
Certificate No: **MEDB00006WX**

## **Product description**

The 70461-"Alusafe-T"- LSA Code is a thermal protective aid (Bag type) for use as equipment in survival crafts and rescue boats.

## **Application/Limitation**

The TPA shall be used in conjunction with an approved lifejacket.

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

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

## **Type Examination documentation**

The following documentation is basis for the DNV GL approval:

- Test for MSC.81(70) as amended, at Wuhan Marine Life Saving Equipment Quality inspection Center /China, dated 2006-06-26 (including explanation for fabric test dated 2006-07-04) and 2006-12-26.
- Technical file approved with NPS job 344.1-010828-1
- Drawing: TPA No. LYG0604 001

This certificate is based on the previous MED-B certificate MED 1550153/M1.

## **Tests carried out**

Prototype tests and test reports in accordance with the Recommendation on Testing of Life-Saving Appliances, IMO Res.81(70) Part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82) and IMO Res. MSC.323(89), have been witnessed and evaluated and found to be in compliance.

## **Marking of product**

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