

# 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 Non-portable and transportable extinguishers**

with type designation(s)

**MCO-10, MCO-10T, MCO-20, MFG-135, MFG-150, MFG-45, MFM-135, MFM-45, MPG-25, MPG-50, MPM-25, MPM-50**

Issued to

**Eversafe Extinguisher Sdn. Bhd.**  
**Subang Jaya, Selangor, Malaysia**

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

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

**item No. MED/3.52. SOLAS 74 as amended, Regulation II-2/4, II-2/10 & X/3 and 2000 HSC Code 7**

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

This Certificate is valid until **2025-08-13.**

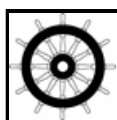
Issued at **Hamburg** on **2020-08-14**

DNV GL local station:

**Kuala Lumpur Verification**

Approval Engineer:

**Andrii Pishchanskyi**



Notified Body  
No.: **0098**

for **DNV GL SE**

**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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-010756-1**  
Certificate No: **MEDB00006V8**

## Product description

Non-portable and transportable extinguishers with designation as per table below:

| Type    | Fire rating | Lower operating temp. [°C] | Upper operating temp. [°C] | Extinguishing medium | Charge size | Assembly drawing No. |
|---------|-------------|----------------------------|----------------------------|----------------------|-------------|----------------------|
| MCO-10  | 70B         | -20                        | 60                         | CO2                  | 10 kg       | 71TWM-EEE-17-010A-E  |
| MCO-10T | 89B         | -20                        | 60                         | CO2                  | 2*10 kg     | 71TWM-EEE-17-010T-E  |
| MCO-20  | 89B         | -20                        | 60                         | CO2                  | 20kg        | 71TWM-EEE-17-020A-E  |
| MFG-135 | IV B        | 5                          | 60                         | 6 % AFFF             | 135 l       | 71TWM-EEE-35-135A-E  |
| MFG-150 | IV B        | 5                          | 60                         | 6 % AFFF             | 150 l       | 71TWM-EEE-35-150A-E  |
| MFG-45  | III B       | 5                          | 60                         | 6 % AFFF             | 45 l        | 71TWM-EEE-35-045A-E  |
| MFM-135 | IV B        | 5                          | 60                         | 6 % AFFF             | 135 l       | 71TWM-EEE-15-135A-E  |
| MFM-45  | III B       | 5                          | 60                         | 6 % AFFF             | 45 l        | 71TWM-EEE-15-045A-E  |
| MPG-25  | I B         | -20                        | 60                         | ABC powder           | 25 kg       | 71TWM-EEE-30-025A-E  |
| MPG-50  | II B        | -20                        | 60                         | ABC powder           | 50 kg       | 71TWM-EEE-30-050A-E  |
| MPM-25  | I B         | -20                        | 60                         | ABC powder           | 25 kg       | 71TWM-EEE-10-025A-E  |
| MPM-50  | II B        | -20                        | 60                         | ABC powder           | 50 kg       | 71TWM-EEE-10-050A-E  |

## Application/Limitation

The extinguishers of types MFG-135, MFG-150, MFG-45, MFM-45 and MFM-135 are not be used on live electrical equipment.

Each product is to be supplied with its manual for installation and use.

## Type Examination documentation

| Type    | Manual            | Test report                                                              |                                      |                                       |
|---------|-------------------|--------------------------------------------------------------------------|--------------------------------------|---------------------------------------|
|         |                   | EN 1866-1:2007                                                           | EN 1866-2:2014                       | EN 1866-3:2013                        |
| MCO-10  | OIS-SPT-MCO(MED)  | 285/7292084 Model MCO-10 Issue 2                                         | N/A                                  | 2244/8487315-10 Model MCO-10 Issue 2  |
| MCO-10T | OIS-SPT-MCO(MED)  | 285/7292084 Model MCO-10T Issue 2                                        | N/A                                  | 2244/8487315-11 Model MCO-10T Issue 2 |
| MCO-20  | OIS-SPT-MCO(MED)  | 285/7292084 Model MCO-20 Issue 2                                         | N/A                                  | 2244/8487315-12 Model MCO-20 Issue 2  |
| MFG-135 | OIS-COT-MFE (MED) | 2244/7663017 3 of 10 Model MFG-135 and 285-7292084 Model MFG-135 Issue 2 | 2244/8487315-8 Model MFG-135 Issue 2 | N/A                                   |
| MFG-150 | OIS-COT-MFE (MED) | 2244/7663017 5 of 10 Model MFG-150 and 285-7292084 Model MFG-150 Issue 2 | 2244/8487315-9 Model MFG-150 Issue 2 | N/A                                   |
| MFG-45  | OIS-COT-MFE (MED) | 2244/7663017 1 of 10 Model MFG-45 and 285/7292084 Model MFG-45 Issue 2   | 2244/8487315-7 Model MFG-45 Issue 2  | N/A                                   |
| MFM-135 | OIS-SPT-MFE(MED)  | 2244/7663017 4 of 10 Model MFM-135 and 285-7292084-MFM-135 issue 2       | 2244/8487315-4 Model MFM-135 Issue 2 | N/A                                   |
| MFM-45  | OIS-SPT-MFE(MED)  | 2244/7663017 2 of 10 Model MFM-45 and 285-7292084-MFM-45 issue 2         | 2244/8487315-3 Model MFM-45 Issue 2  | N/A                                   |
| MPG-25  | OIS-COT-MFE (MED) | 285/7292084 Model MPG-25 Issue 3                                         | 2244/8487315-5 Model MPG-25          | N/A                                   |
| MPG-50  | OIS-COT-MFE (MED) | 285/7292084 Model MPG-50 Issue 2                                         | 2244/8487315-6 Model MPG-50 Issue 2  | N/A                                   |
| MPM-25  | OIS-SPT-MFE(MED)  | 285/7292084 Model MPM-25 Issue 2                                         | 2244/8487315-1 Model MPM-25          | N/A                                   |
| MPM-50  | OIS-SPT-MFE(MED)  | 285/7292084 Model MPM-50 Issue 2                                         | 2244/8487315-2 Model MPM-50 Issue 2  | N/A                                   |

### Tests carried out

Tested according to EN 1866-1:2007, EN 1866-2:2014 and EN 1866-3:2013 as applicable.

### Marking of product

The product is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity (see first page) and in accordance with EN 1866-1:2007 Ch. 6.9.