

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 Portable fire extinguishers

with type designation(s)

EEC-5A1e1, EEC-5e1, EED-12, EED-12c, EED-12cMX, EED-6, EED-6c, EED-9, EED-9c, EEF-9c, EEF-9cs, EEF-9s, EEF-9s+, EEK-9cs, EEK-9s, EEW-9s, EEW-9cs

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/3.2. SOLAS 74 as amended, Regulation II-2/4, II-2/10, II-2/18, II-2/19, II-2/20 & X/3, IMO Res. A.951(23), 2000 HSC Code 7, FSS Code 4, IMO MSC.1/Circ.1239 and IMO MSC.1/Circ.1275

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

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

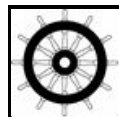
Issued at **Hamburg** on **2020-08-14**

DNV GL local station:

Kuala Lumpur Verification

Approval Engineer:

Andrii Pishchanskyi



Notified Body
No.: **0098**



for **DNV GL SE**

Digitally Signed By: Mydlak-Röder, Christine

Location: DNV GL Hamburg, Germany
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

Potable fire extinguisher with designation as per table below:

Type	Fire rating	Lower operating temp. [°C]	Upper operating temp. [°C]	Extinguishing medium	Charge size	Assembly drawing No.
EEC-5Ale1	55B	-20	60	CO2	5 kg	71PWM-EEE-17-005Z-E
EEC-5e1	55B	-20	60	CO2	5 kg	71PWM-EEE-17-005A-E
EED-12	43A, 233B	-20	60	ABC powder	12 kg	71PWM-EEE-10-012A-E
EED-12c	43A, 233B	-20	60	ABC powder	12 kg	71PWM-EEE-30-012A-E
EED-12cMX	233B	-20	60	Monnex powder	9 kg	71PWM-EEE-32-009A-E
EED-6	43A, 233B	-20	60	ABC powder	6 kg	71PWM-EEE-10-006A-E
EED-6c	27A, 183B	-20	60	ABC powder	6 kg	71PWM-EEE-30-006A-E
EED-9	43A, 233B	-20	60	ABC powder	9 kg	71PWM-EEE-10-009A-E
EED-9c	34A, 233B	-20	60	ABC powder	9 kg	71PWM-EEE-30-009A-E
EEF-9c	13A, 183B	5	60	6% AFFF	9 l	71PWM-EEE-35-009N-E
EEF-9cs	21A, 183B	5	60	6% AFFF	9 l	71PWM-EEE-35-009A-E
EEF-9s	21A, 183B	5	60	6% AFFF	9 l	71PWM-EEE-15-009A-E
EEF-9s+	21A, 183B	-5	60	6% AFFF	9 l	71PWM-EEE-15-009A+K
EEK-9cs	13A, 75F	0	60	Wet chemical	9 l	71PWM-EEE-36-009A-E
EEK-9s	13A, 75F	0	60	Wet chemical	9 l	71PWM-EEE-16-009A-E
EEW-9s	21A	5	60	Water	9 l	71PWM-EEE-14-009A-E
EEW-9cs	21A	5	60	Water	9 l	71PWM-EEE-34-009A-E

Application/Limitation

For water based extinguishers of types EEF-9cs, EEF-9s, EEF-9s+, EEK-9cs, EEK-9s, EEW-9s, EEW-9cs a Dielectric Test according to EN 3-7 item 9 has been performed showing that this product is suitable for use on live electrical equipment up to 1,000 V at a distance of 1 m.

The extinguishers of type EEF-9c is 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 reports		
		EN 3-7:2004+A1:2007	EN 3-8:2006+A1:2007	EN 3-9:2006+A1:2007
EEC-5Ale1	OIS-SPT-EEC(MED)	2244/8150392 Model EEC-5Ale1	N/A	285/7146036-5
EEC-5e1	OIS-SPT-EEC(MED)	2244/8150392 Model EEC-5e1	N/A	285/7146036-5
EED-12	OIS-SPT-EED(MED)	2244/8150392a2 Model EED-12 Issue 2	285/7146036-4	N/A
EED-12c	OIS-COT-EED(MED)	2244/8150392a2 Model EED-12c Issue 2	285/7146036-4	N/A
EED-12cMX	OIS-COT-EED (MED)	2244/8150392a2 Model EED-12cMX Issue 3	285/7146036-4	N/A
EED-6	OIS-SPT-EED(MED)	2244/8150392a2 Model EED-6 Issue 2	285/7146036-4	N/A
EED-6c	OIS-COT-EED(MED)	2244/8150392a2 Model EED-6c Issue 2	285/7146036-4	N/A
EED-9	OIS-SPT-EED(MED)	2244/8150392a2 Model EED-9 Issue 2	285/7146036-4	N/A
EED-9c	OIS-COT-EED(MED)	2244/8150392a2 Model EED-9c Issue 2	285/7146036-4	N/A
EEF-9c	OIS-COT-EEF(MED)	2244/8150392 Model EEF-9c	285/7146036-4	N/A
EEF-9cs	OIS-COT-EEF(MED)	2244/8150392 Model EEF-9cs	285/7146036-4	N/A
EEF-9s	OIS-SPT-EEF(MED)	2244/8150392 Model EEF-9s	285/7146036-4	N/A
EEF-9s+	OIS-SPT-EEF(MED)	2244/8150292 Model EEF-9s+	285/7146036-4	N/A
EEK-9cs	OIS-COT-EEK(MED)	2244/8150392a2 Model EEK-9cs Issue 2	285/7146036-4	N/A
EEK-9s	OIS-SPT-EEK(MED)	2244/8150392a2 Model EEK-9s Issue 2	285/7146036-4	N/A
EEW-9s	OIS-SPT-EEW(MED)	2244/8150392 Model EEW-9s	285/7146036-4	N/A
EEW-9cs	OIS-COT-EEW(MED)	2244/8150392 Model EEW-9cs	285/7146036-4	N/A

Tests carried out

Tested according to EN 3.

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 3-7, Ch. 16.