



Marine & Offshore

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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) 2020/1170 of 16 July 2020

This certificate is issued to:

DESAUTEL

MEYZIEU - FRANCE

for the type of product

PORTABLE FIRE-EXTINGUISHING EQUIPMENT FOR LIFEBOATS AND RESCUE BOATS

Trade name: DESAUTEL, AUCA, MIM, SURVITEC, KENBRI
PORTABLE PULVERIZED WATER, WET CHEMICAL AND FOAM, 6L EXTINGUISHERS (MED009) : type
AL6S-30, AL6F, AL6W+, E6A15EV and E6A6EVP.

Requirements:

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 3-8:2006 incl. AC:2007, 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: 26 Oct 2025**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV LYON, on 26 Oct 2020,

Yann Krempewicz



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:

EXTINGUISHERS 6L WATER SPRAY EXTINGUISHERS, type E6A15 EVF UNITOR

Type	AL6 F	AL6 W+	AL6S-30
Capacity Water	6L RC50	5,7 L	6L EXD-30
Additive	-	0,3L F334 (5%)	
Temperature Range of Use	- 20°C to +60°C	+5°C to +60°C	- 30°C to +60°C
Discharge Time	31 seconds	22 seconds	23 seconds
Propelling Gas	CO2 ; 60 g		CO2 ; 80 g
Total Weight	~ 12 kg		
Maximum allowable pressure (at 60°C)	16.8 bar		
Test Pressure (cylinder)	26 bar		
Diameter	D170 mm		
Overall Height	~ 690 mm		
Hose Length	650 mm to 800 mm		
Fire Class	21A/75F	34A	21A/183B

Type	E6A6EVP	E6A15EV
Capacity Water	5,64 L	5,91 L
Additive	0,36L POLYFOAM 3/6S	0,09L AFFF (EX1, BSX233 or Compact) (1.5 %)
Temperature Range of Use	+5°C to +60°C	
Discharge Time	20 seconds	22 seconds
Propelling Gas	CO2 ; 60 g	
Total Weight	~ 12 kg	
Maximum allowable pressure (at 60°C)	16.8 bar	
Test Pressure (cylinder)	26 bar	
Diameter	D170 mm	
Overall Height	~ 690 mm	
Hose Length	from 650 mm to 800 mm	
Fire Class	13A/144B + polar solvents	21A/233B

Other materials and/or components:

Cylinder	Steel
Operating Valve	Aluminium alloy
Siphon Tube	PVC
Hose	Reinforced rubber
Nozzle	Polyamide
Mounting Bracket	Steel

2. DOCUMENTS AND DRAWINGS:2.1 - Design Drawings

Type	AL6 F	AL6 W+	AL6S-30
Plan ensemble	UDA00330 issue D	UDA00441 issue B	
BODY	UDA00035 issue E		
HEADCAP with CO2 CARTRIDGE	UDA00312 issue B		
CO2 CARTRIDGE	60g UDA00600 issue B		80g UDA00600 issue B
NOZZLE	UDA00302 issue B		
ADDITIVE FOAM CONTAINER	/	/	/
DIFFUSOR	UDA00311 issue A	0312470 issue B	
MARINE BRACKET	UDM021 issue A		

Type	E6A6EVP	E6A15EV
Plan ensemble	UDA00400 issue D	UDA00262 issue E
BODY	UDA00035 issue E	UDA00035 issue E
HEADCAP with CO2 CARTRIDGE	UDA00403 issue D	UDA00301 issue B
CO2 CARTRIDGE	60g UDA00600 issue B	
NOZZLE	UDA00302 issue B	
ADDITIVE FOAM CONTAINER	UDA00404 issue C	UDA00257 issue B
DIFFUSOR	UDA00408 issue A	0312470 issue B
MARINE BRACKET	UDM021 issue A	

2.2 - Manual(s) for maintenance

AL 6 F, AL 6 W+, AL 6 S-30 : Maintenance and refilling instructions : n ° 6080160 Version 02

E6A6 EVP : Maintenance and refilling instructions : n ° 6080132 Version 05

E6A15 EV : Maintenance and refilling instructions : n ° 6080130 Version 03

2.3 - Informative forms

AL 6 F, AL 6 W+, AL 6 S-30 : n ° 6080690 Version 01

E6A6 EVP : n ° 6080133 Version 04

E6A15 EV : n ° 6080044 Version 10

3. TEST REPORTS:3.1 - **Test reports as per EN 3-7 for variants :**

- M18 coupling :
 - Technical assessment CNPP as per EN 3.7:2004 n° EH 09 12 05 1060 dated 16/12/2009 from CNPP, France.
 - Test report CNPP as per EN 3 n° EH 05 10 06 1070-1 date 16/12/2009 from CNPP, France.
- Curved handle
 - Technical assessment CNPP as per EN 3.7:2004 n° EA 11 09 01 1060 dated 26/09/2011 from CNPP, France.

3.2 - AL 6 F

Test report as per EN 3-7+A1:2007 n° 2011-F-5476_DS 15 AL6F dated 12/03/2012 from MPA Dresden GmbH, Germany.

3.3 - AL 6 W+

Test report as per EN 3-7+A1:2007 n° 20140930_DS 26 AL6W+ dated 31/07/2014 from MPA Dresden GmbH, Germany.

3.4 - AL 6 S-30

Test report as per EN 3-7+A1:2007 n° 2011-F-5476_DS 16 AL6S-30 dated 12/03/2012 from MPA Dresden GmbH, Germany.

3.6 - E6A6 EVP

- Test report Apragaz as per EN 3-7+A1:2007 n° 10482-2 (dielectric test only) dated 29/04/2016 from Apragaz, Belgium
- Test report Apragaz as per EN 3-7+A1:2007 n° EN 11788 dated 26/07/2018 from Apragaz, Belgium.

3.7 - E6A15 EV

- With additive BSX233 : Test report as per EN 3-7+A1:2007 n° EH 12 07 01 1070 dated 06-07-2012 from CNPP, France.
- With additive Compact : Test report as per EN 3-7+A1:2007 n° EH 12 10 03 1070 dated 05-11-2012 from CNPP, France.
- With additive EX1: Test report as per EN 3-7+A1:2007 n° EH 12 05 04 1070 dated 20-06-2012 from CNPP, France.
- With additive BSX233 : Technical assessment as per EN 3-7+A1:2007 n° EA 12 07 01 1060 dated 06-07-2012 from CNPP, France.

3.8 - Test reports as per EN 3.8/AC

- Test report as per EN 3-8:2006+AC:2007 n° 120327 dated 27/03/2012
- Test report as per EN 3-8:2006+AC:2007 n° 20130222 dated 22/02/2013

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 E6A6EVP is suitable for use on live electrical equipment up to 1000V.

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:

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.

6. MARKING OF PRODUCT:

As per IMO Resolution A.951 (23), paragraph 8 and the provisions of the Directive:

- 1 - Model designation
- 2 - Manufacturer's name and address
- 3 - Type of fire for which the extinguisher is suitable
- 4 - Type and quantity of extinguishing medium, i.g.: Water; 6 liters
- 5 - Propelling gas : CO₂
- 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
- 9 - Test pressure, i.g.: 26 bar
- 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 **DESAUTEL'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 EC Type Examination Certificate n° 22549/B1 EC issued on 12/10/2015 by the Society.

*** END OF CERTIFICATE ***