

Technical Manual



SAFETY
FOR
FUTURE



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GW6AI 32066-711L : Portable Fire Extinguisher, 6 L Foam

EXTINGUISHING AGENT SUITABLE FOR LITHIUM BATTERIES



FLUORINE FREE



FLOATING CARTRIDGE
INSIDE



CLIP DETAIL



- **CYLINDER**
In high-strength alloy steel, with clip, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water + cartridge with foaming additive, fluorine free.
- **PROPELLANT**
Auxiliary pressure.
Fire extinguisher pressurized at moment of use with 60g CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method .
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

Note: image is for illustrative purpose only, the product purchased can has some difference

6 L foam fire extinguisher, auxiliary pressure, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



FIRE
RATING :



27



144



40



REPRODUCTION IS PROHIBITED

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- **INSTALLATION** The installation must be carried out in accordance with the provisions in force in the country where the device is used. The commissioning and maintenance activities for maintaining efficiency must be carried out in accordance with the document **PSA_1-B_ENG** by qualified
 - **USE**
 - **MAINTENANCE** technical personnel and in compliance with the regulations in force in the country of use.
- Any tampering or intervention carried out by unqualified personnel will void the product warranty.
- It is recommended to place the device in a dry place protected from atmospheric agents.

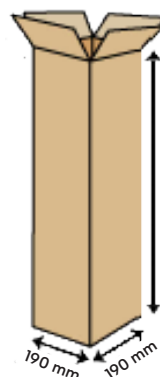
TECHNICAL SPECIFICATIONS

FIRE RATING	27 A 144 B 40 F
EXTINGUISHING AGENT	Water (5,94 L) + Green Wave Premix Lith-M (60 ml cartridge) (* Hyper-filtered water with an osmosis process)
PROPELLANT	Cartridge with 60 g CO ₂
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 10,65 Kg
DIMENSIONS	Height (base - valve) 510 +/- 5 mm (with bottom) Diameter (cylinder) 162 +/- 2 mm
DISCHARGE TIME	34,8 seconds
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	7,30 L
SAFETY DEVICE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
TREATMENT	Outside: Sandblast and powder painting, Ral 3000 Inside: Plastic coating

PACKAGING

(Note: quantities and measurements are indicative and can be subject at changes)

STANDARD
Maximum nr. 60 pieces for pallet
(single packaging)
Pallet dimensions 100x120 cm



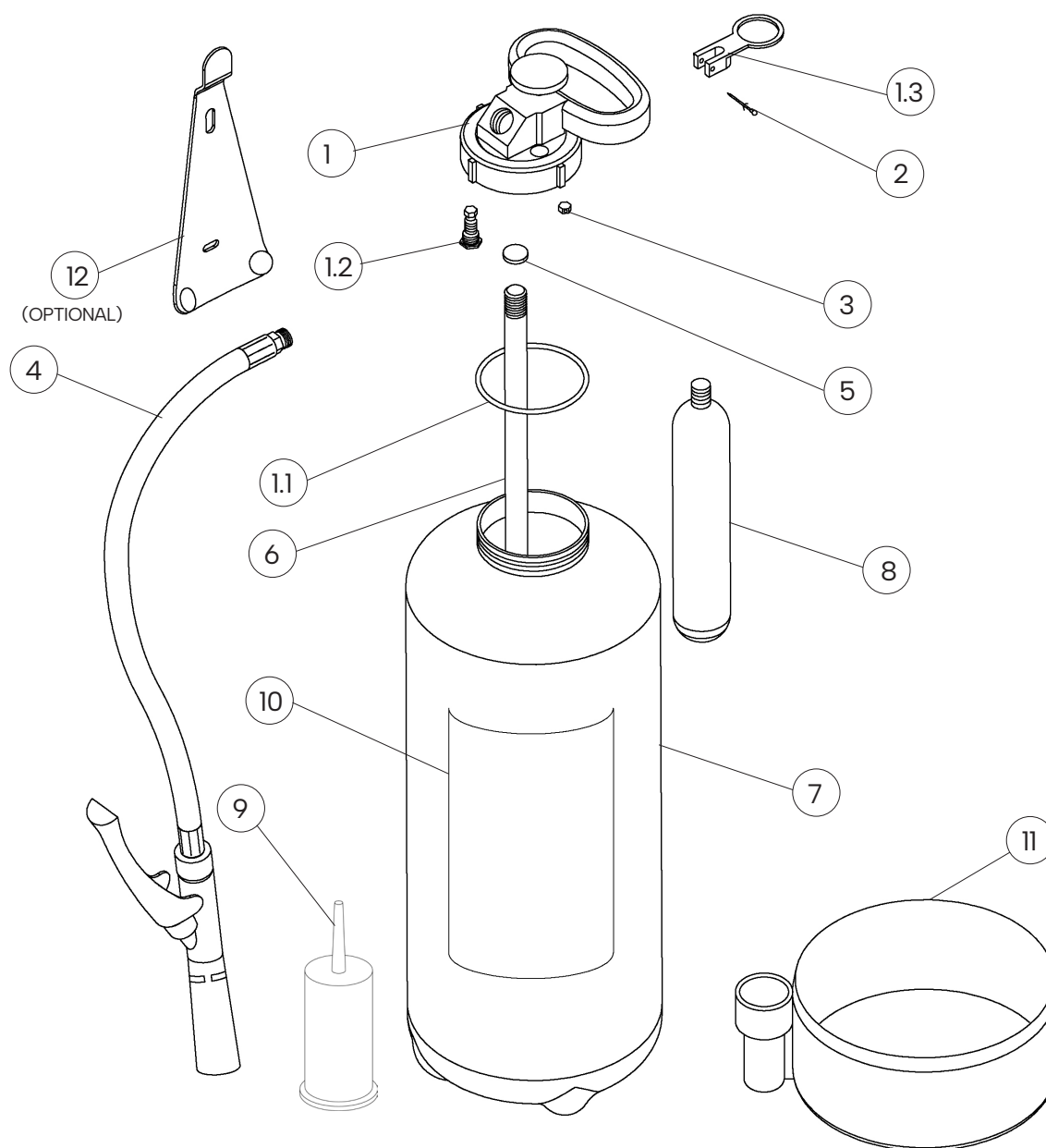
TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594
Ship Transport : IMDG Code – UN 1044 class 2.2 Fire Extinguishers

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COMPONENTS AND SPARE PARTS LIST



NUM.	DESCRIPTION	CODE
1	Valve M. 74x2	3008
1.1	O-ring valve	0201-5
1.2	Safety device	n.a.
1.3	Safety pin	n.a.
2	Safety pin seal	0285
3	Pressurization cap	3033-2
4	Hose with dispensing nozzle	2297-IV
5	Bursting disk for dip tube	0262-32

NUM.	DESCRIPTION	CODE
6	PVC dip tube with filter	2179-3
7	Cylinder	3007
8	CO ₂ cartridge 60 g	3029-2
9	Cartridge with 60 ml additive	3412-3
10	Label	2246-711L
11	Plastic bottom	3028-2
12 OPTIONAL	Wall-mounted bracket for fire extinguisher with clip	3036

The spare part at number 1 includes already all others components indicated from 1.1 to 1.3
 "n.a." mean that the component is not available as single spare part

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Prerequisite when using the fire extinguisher on lithium batteries

According to tests executed with this fire extinguisher, it's possible to stop the combustion of a lithium-ion battery with a water based fire extinguisher with foam additives. It has been verified that the use of the fire extinguisher allows to lower the temperature and control any re-ignitions of the cells present inside the battery (generated by the chain reaction of the same and due to their shape inside the battery pack).
The fire extinguisher tested is therefore effective in containing the flames emanated from a battery with same or inferior characteristics compared to the one tested.

**NOTE: the test was executed on a new battery and so at full efficiency.*

**SAFETY
WARNING**



*The combustion of lithium-ion batteries releases very harmful gases and fumes.
Direct exposure to high concentrations of gases emanating from the combustion of lithium-ion batteries can cause serious damage to health. Lithium-ion batteries can have unpredictable phenomena during fire, such as explosive reactions caused by the pressure of the cells inside the battery pack. It's advisable to use appropriate safety devices.
The use of fire extinguisher is recommended for professional and expert staff.
The use of fire extinguisher by uninformed people can lead to lower results and cause damage to involved people.*

DISCLAIMER

The result of the tests performed refers exclusively to the fire extinguisher model used during the tests themselves. The fast development of lithium-ion batteries and portable fire extinguishers means that the performance achieved during the test phase is not guaranteed when using lithium-ion batteries or shutdown techniques other than those tested. It is not possible to understand where and to what extent these fire extinguishers can be installed due to the outer casing of the lithium-ion battery pack.
The fire extinguishers tested are intended to help contain the principle of fire resulting from the triggering of a lithium-ion battery.

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