

# SUPERYACHTS – SAFETY PACKAGE

KMA GROUP

## Risks with Lithium-Ion batteries

The green revolution is in full swing and Lithium-Ion batteries play a crucial role in it. These batteries are generally very safe, but thermal incidents cannot be ruled out. Battery fires involve extremely high temperatures and large amounts of (toxic) gases and can have disastrous consequences. Regular fire extinguishers and safety equipment are inadequate for battery fires. Therefore, KMA has developed a range of fire safety products specifically for Lithium-Ion battery fires. Take the right safety measures with this package.

## Safety comes first: fire blanket, Lith-Ex extinguisher and face mask

This safety package has been specially formulated for superyachts. It contains a fire blanket, Lith-Ex AVD fire extinguisher and facemask.



The manufacture and supplier reserve the right to change the design and/or specification without prior notice.

Important notice: The datasheet contains typical information specific to products manufactured at the time of its publication.

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## Fire blanket

Operating temperature up to 1000°C

Fire-resistant high-tech cloth

Fire-resistant multilayer reinforced edges

Fire-resistant yarn

Carrying loops on the corners

Carrying bag included

250x250 cm (custom dimensions possible)

Manufactured in Heerenveen (The Netherlands)



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The AVD (Aqueous Vermiculite Dispersion) extinguishing agent has been specially developed for controlling and extinguishing Lithium battery fires. AVD immediately ensures efficient cooling and immediately creates a thermal block that prevents re-ignition of the lithium battery and the spread of fire to other cells. The Lith-Ex AVD 9 liter extinguisher has a government type approval for fire class A (solids).

## Lith-Ex AVD fire extinguisher



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Capacity:	9 Litres
Agent weight:	9.9 kg
Total weight:	15.0 kg
Total height:	170mm
Total diameter:	644mm
Min. working temp.:	+5°C
Max. working temp.:	+60°C
Approx. discharge time:	180 secs
Operating pressure:	15 Bar
Extinguishing agent:	AVD
Propellant:	Nitrogen (3% He)
Viscosity [Sp3, 100rpm]:	<500cP
Fire rating:	13A
Conform EN3-7:	EN12053
	35kV dielectric test
	Bio degradable
	Non toxic

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## Full face mask

Brand: 3M

Norm: EN 136

Silicone rubber

Includes 1 set of gas and vapor filters

Reusable

Version with two filters for better weight distribution and a better view

With speech diaphragm, which ensures excellent speech intelligibility

With Coolflow exhalation valve for lower breathing resistance and less moisture and heat in the mask

The masks can be combined with all 3M filters with bayonet connection



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