

FIREBLOCK

Information pack



SCAN ME



FIREBLOCK LITHIUM is a specialised gel that is used to extinguish lithium battery fires of different chemistries and cell types

FIREBLOCK LITHIUM is non-toxic and a 100% bio-degradable



Distributed by:

Energy Independence (Pty) Ltd
Reg Number: 2015/364804/07
81A Schooner Avenue
Laser Park, Honeydew

LITHIUM BATTERY FIRE EXTINGUISHER



FIREBLOCK LITHIUM is a specialised gel that is used to extinguish lithium battery fires of different chemistries and cell types.

FIREBLOCK LITHIUM is non-toxic and a 100% bio-degradable.

All units carry the CE UKCA and BSI Kitemark accreditation stamps.



Product Specifications:

➤ PRODUCT CODE :	EGS2	EGS6	EGS9
➤ CAPACITY :	2 Litres	6 Litres	9 Litres
➤ MEDIUM :	FIREBLOCK LITHIUM Gel	FIREBLOCK LITHIUM Gel	FIREBLOCK LITHIUM Gel
➤ PROPELLANT :	Nitrogen gas	Nitrogen gas	Nitrogen gas
➤ FILLED & EMPTY WEIGHTS :	Filled 3.4kg Empty 1.4kg	Filled 9.9kg Empty 3.85kg	Filled 14kg Empty 4.9kg
➤ NOMINAL DISCHARGE TIME :	15 seconds	45 seconds	49 seconds
➤ OPERATING PRESSURE :	15 bar at 20 °C	15 bar at 20 °C	15 bar at 20 °C
➤ TEST PRESSURE :	27 bar	27 bar	27 bar
➤ OPERATING TEMP RANGE :	+5°C to +60°C	+5°C to +60°C	+5°C to +60°C
PACKING SPEC (HxWxD)	460 x 160 x 108mm	529 x 177 x 177mm	552 x 205 x 205mm

FIREBLOCK TECHNICAL DATA SHEET

PRODUCT AND ADDITIVES

Potassium
polyacrylate
Montmorillonite
Quartz
Mica
Stabilizers
Thickening agents

PRODUCT DESCRIPTION

FIREBLOCK LITHIUM is a fire fighting gel/ suppressant. Supplied in a gel form, for the use in Fire extinguishers and suppression systems that are used for the fighting and controlling of lithium fires through safe and nontoxic chemical means.

FIREBLOCK LITHIUM is polymer based product with high bonding properties so that it will stick to surfaces protecting them from fire.

PRODUCT BENEFITS

Suitable for the use in most fire suppression systems and fire extinguishers.
Highly concentrated
Provides a layer on the lithium batteries that reduces the heat to a point that the fire is extinguished.
More effective than the use of water
Requires less product to extinguish a fire compared to extinguishing the fire with water.
Extinguishes fires quick and easily.
Prevents fire from reigniting
Nontoxic and safe for people and animals
100% Biodegradable

SERVICE AND MAINTENANCE

FIREBLOCK LITHIUM is hygroscopic and absorbs moisture. Keep sealed and store in a cool dry place.

FIREBLOCK lithium fire extinguishers must be serviced annually by Fidelity Fire Secure. Fireblock fire extinguishers are accredited with the BSI Kitemark, and therefore, it is fully compliant and legal for Fidelity, a BSI-rated company, to service and refill them under that certification.

PACKAGING

FIREBLOCK LITHIUM is available in the following packing: 2l, 6l, & 9l handheld fire extinguishers containers. 1000kg Flow bins

APPLICATION

For the use in Fire Extinguishers & Suppression Systems

THEORETICAL COVERAGE

Depends on how thick you spray the gel.

SERVICE EQUIPMENT

Service Extinguisher immediately after use.

CLEANING OF ITEMS SPRAYED

Spray clean water on any item exposed to FIREBLOCK LITHIUM gel.

OTHER INFORMATION

Data are typical of our normal production and are subject to normal variation. It should not be taken as a binding specification.

DIRECTIONS

After extinguishing the lithium batteries, leave the gel on the batteries until the smoke dissipates and batteries cooled down enough to dispose.

HEALTH AND SAFETY

Safe and nontoxic to use
Wash with large quantities of water if ingested or have contact to eyes or skin.
See MATERIAL SAFETY DATA SHEET

PHYSICAL PROPERTIES

Odourless, Green colour gel.

MATERIAL SAFETY DATA SHEET

FIREBLOCK LITHIUM

MATERIAL IDENTIFICATION

Product Name: FIREBLOCK LITHIUM
Product Use: For Extinguishing Lithium Battery Fires
Chemical Family: Acrylate Polymer Sodium Salt (SAP)

INGREDIENTS

Potassium Polyacrylate(C₃H₃KO₂)_n
Silicon Dioxide (SiO₂)
Aluminium Oxide (Al₂O₃)
Iron Oxide (Fe₂O₃)
Magnesium Oxide (MgO)
Calcium Oxide (CaO)
Potassium Oxide (K₂O)
Titanium Dioxide (TiO₂)
Lithium Oxide (Li₂O)
Water (H₂O)

HAZARDOUS IDENTIFICATION AND CAUTION

Not classified as hazardous to human health or the environment.

General Advice: Remove soaked clothing
Inhalation: Use a mask when handling large quantities and for protection against dust or smoke inhalation.
Eye Contact: May cause watering and redness
Skin Contact: May cause skin irritation on prolonged contact.
Ingestion: May cause nausea and vomiting.

FIRST AID MEASURES

Inhalation: Place individual in a well ventilated area with sufficient fresh air circulation.

Eye Contact: Flush eyes with water for a minimum of 15 minutes. Exposure may cause eyelids to become sticky.

Skin Contact: Cleanse the affected area thoroughly with soap and water. This product may lead to dry skin. Repeated exposure may result in skin irritation. If irritation persists, consult a medical professional.

Ingestion: In case of ingestion, consume ample water to aid in flushing the system. Promptly seek medical assistance if significant amounts have been ingested.

FIREFIGHTING MEASURES

Explosion Data: Non explosive
Flammability: Non Flammable or combustible
Special Procedures: None
Flash-point: Non Flammable
Auto Ignition: Not Applicable

ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is spilled or released Sweep up or flush with water or diluted salt solution.

CAUTION: The surface will become very slippery when wet

HANDLING AND STORAGE

Handling: Safe to handle. Material is slippery. Avoid repeated skin contact.

Storage: Store in a cool, dry place out of direct sunlight. Keep closed and out of reach of children.

EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Pre-cautions: Wear rubber gloves when handling for prolonged periods. Avoid contact with eyes, nose and mouth.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Water Base Gel
Appearance: Green Colour
Odour: Odourless
Vapour Pressure: Not available
Evaporation rate: Not available
Melting point (°C):
Boiling point (°C): 1500 Degrees Celsius
Freezing point (°C): 0 Degrees Celsius
% Volatile (by weight):
pH Level: pH: 6.5-8.5
Specific Gravity:
Bulk Density:
Flash Point: Non-flammable product

STABILITY AND REACTIVITY

Stable in normal use conditions.
Do not mix with any other chemicals products.

TOXICOLOGICAL INFORMATION

Refer to Hazardous Identification and Caution section

ECOLOGICAL INFORMATION

Low impact on the environment
Non Toxic
100% Bio-degradable

DISPOSAL INFORMATION

- Disposal can be carried out as for a non-toxic and inert substance.
- Gather spilled material using a shovel and broom, or equivalent, for potential reuse.
- Disperse by dissolving with salt and rinse into a sandy area.
- Avoid draining into sewers or watercourses to prevent blockages.

TRANSPORTATION INFORMATION

No specific transport required.
Easy to transport.
Not classified as dangerous for transportation.

REGULATORY INFORMATION

Not classified
Keep out of reach of children
Wear suitable gloves and eye protection

OTHER INFORMATION

The information contained in the Material Safety Data Sheet relates only to the specific material designated and does not constitute and accrument of workplace risks. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use and staff should be trained to handle the products and be aware of the related dangers.

The information and recommendation contained above are based on data and measures believed to be accurate and correct.

FIREBLOCK does not assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Date: 09 April 2021



Signature:
Louis Koekemoer

Manufactured By:



FIREBLOCK

EU-Type Examination - Production Type Certificate

No.CE 603059

This is to certify that:

Jactone Products Limited
Springvale Business Park
Springvale Avenue
Bilston
WV14 0QL
United Kingdom

Holds Certificate Number: CE 603059

In respect of:

Fire Extinguisher Assemblies

On the basis of our examination under the requirements of Council Directive 2014/68/EU Module B of the Pressure Equipment Directive, as transposed into the law of The Netherlands Warenwetbesluit drukapparatuur 2016.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 2797):



Denelise L'Ecluse, Managing Director Assurance - Continental Europe

First Issued: 2014-06-20

Latest Issue: 2023-07-07 Expiry Date: 2032-05-21



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Latest Issue: 2023-07-07

Expiry Date: 2032-05-21

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To check its validity telephone +31 20 3460780. An electronic certificate can be authenticated [online](#).

BSI Group The Netherlands B.V., registered in the Netherlands under number 33264284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands
A member of BSI Group of Companies.

EU-Type Examination - Production Type Certificate

No.CE 603059

Additional Information

Limitations of Certificate Validity

Products: Portable LP fire extinguisher assemblies in the following models:

- EPS12 – 12 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EPS9 – 9 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EWS9 – 9 Litre Water – PS = 17.8 bar g and TS = 0°C to +60°C
- EPVS9 – 9 Litre Water/Polymer – PS = 17.8 bar g and TS = 0°C to +60°C
- EFS9ECO – 9 Litre Eco-Foam – PS = 17.8 bar g and TS = 0°C to +60°C
- EPS6 – 6 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EWS6 – 6 Litre Water – PS = 17.8 bar g and TS = 0°C to +60°C
- EWMS6 – 6 Litre Water Mist – PS = 17.8 bar g and TS = 0°C to +60°C
- EFS6Plus – 6 Litre Foam Plus – PS = 17.8 bar g and TS = 0°C to +60°C
- EFS6ECO – 6 Litre Eco-Foam – PS = 17.8 bar g and TS = 0°C to +60°C
- EWCS6 – 6 Litre Wet Chemical – PS = 9.6 bar g and TS = 0°C to +60°C
- EPVS45 – 4.5 Litre Water/Polymer – PS = 17.8 bar g and TS = 0°C to +60°C
- EPS4 – 4 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EWMS3 – 3 Litre Water Mist – PS = 17.8 bar g and TS = 0°C to +60°C
- EWCS3 – 3 Litre Wet Chemical – PS = 9.6 bar g and TS = 0°C to +60°C
- EPS2 – 2 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EGS9 – 9 Litre Gel – PS = 17.8 bar g and TS = 0°C to +60°C**
- EGS6 – 6 Litre Gel – PS = 17.8 bar g and TS = 0°C to +60°C**
- EGS2 – 2 Litre Gel – PS = 17.8 bar g and TS = 0°C to +60°C**
- EFAS4 – 4 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EFAS2 – 2 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C
- EFAS1 – 1 kg Dry Powder – PS = 17.8 bar g and TS = -20°C to +60°C

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