

Multi-functional extinguishing additive with encapsulation technology

Technical Sheet

Lithium OFF



1. General Characteristics:

Ready-to-use encapsulating agent for multi-class fire suppression. It quickly reduces fire hazards, ensuring rapid control and extinguishing times, reducing vapor leaks, and preventing contact with oxygen. Ready-to-use Lithium OFF is suitable for fighting fires caused by lithium batteries and fires of classes A, B, D, and K. It is effective for combating fires involving a wide range of materials, as well as for controlling fuel spills. The synergy of its active components offers the following benefits:

- Reduction of surface tension
- Interface activity
- Encapsulation
- Accelerated evaporation or evaporation at approx. 70°C
- Deep infiltration into burning materials and cavities
- Accelerated cooling of flammable substances below ignition point
- Stable emulsion that no longer releases flammable vapors, minimizing the risk of re-ignition

2. Applications

Lithium OFF is compatible with all existing equipment. It can be used with extinguishers and non-aspirating devices (water spray nozzles and standard sprinklers). For class A fires, the extinguishing agent should be applied with an aggressive suppression approach. For especially efficient and cost-effective use in mobile and stationary areas, we recommend systems and accessories specifically designed for the Lithium OFF Encapsulating Agent.

3. Toxicity

The ingredients in ready-to-use Lithium OFF are present in very low concentrations and, under normal use conditions, have no environmental impact and are non-toxic to humans and animals. Please refer to our Safety Data Sheet for more specifications and regulations.

4. Appearance

Ready-to-use Lithium OFF is a translucent, homogeneous, light yellow liquid.

5. Packaging

It is available in:

- 5 Gal (20-liter) jerry cans
- 55 Gal (200-liter) cylindrical drums
- 256 Gal (1000-liter) IBC containers

The aforementioned packaging is shipped on non-returnable pallets and protected with polyethylene film

6. Storage

The product should be stored at temperatures between 35°F (1.7°C) and 120°F (49°C), preferably in the original containers or in stainless steel or epoxy-coated tanks. Avoid permanent contact with carbon steel, iron, copper alloys, aluminum, etc.

It can be stored without any loss of efficiency for a period of 10 years.

7. Physical and Chemical Properties

SPECIFICATIONS	VALUES
Density at 20°C, Gr/cm3	0,97 - 1,03
PH 20°C	7 – 7.5
Pour Point	35°F (1.7°C)
Usage Min Temperature	35°F (1.7°C)

8. Quality Assurance and Approvals

Encapsulating agents with certified quality: both the research and development process of Lithium OFF and its production are carried out within a quality management system certified under ISO 9001:2015 standards, in order to ensure compliance with NFPA 18A specifications and functional characteristics.

The information provided in this product sheet is for informational purposes only and does not constitute a warranty. This product has been manufactured under strict quality controls. When used and handled properly, it poses no danger. DAFFCO LLC cannot control how this product is used and therefore assumes no responsibility for any consequences or damages resulting from its misuse.