



PROTENG
SPAIN

Proteng Li

Premium Protection For Lithium-ion Batteries



An evolution in autonomous fire- extinguishing technology.

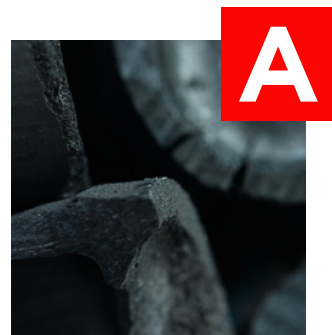
Proteng Firexo by Proteng Spain S.L is a completely unique device designed to protect enclosed spaces, created by combining two patented technologies - an automatic autonomous extinguishing device Proteng® and Firexo extinguishing liquid fx51.

Proteng Firexo extinguishing devices represent the ultimate universal solution for firefighting, tailored for modern life and contemporary risks.

They are non-toxic, environmentally safe, composed of natural components, and utilise groundbreaking technology to provide efficient protection in accordance with current requirements.



Class of Fire



Combustible
Materials



Flammable
Liquids



Flammable
Gases



Flammable
Metals



Electronic
Equipment



Cooking
Oils & Fats
















Lithium-ion
(e.g. Batteries)

Traditional extinguishing devices are limited to certain products and specific types of fires, often causing consequential damage and posing a threat to life due to hazardous ingredients if the wrong product is used.

Proteng Firexo eliminates this risk, enabling users to address any fire situation safely, with minimal damage and financial savings.



<div style="text-align: center;">Class of Fire</div> <div style="text-align: center;">Extinguisher Type</div>	 Combustible materials - (e.g. paper / wood)	 Flammable liquids - (e.g. petrol / paint)	 Flammable Gases - (e.g. butane / methane)	 Flammable metals - (e.g. magnesium / aluminum)	 Electronic equipment - (e.g. computers)	 Cooking oils and fats - (e.g. Chip Pans)	 Lithium-Ion (e.g. Batteries)
	✓	✓	✓	✓	✓	✓	✓
	✓	✗	✗	✗	✗	✗	✗
	✓	✓	✗	✗	✗	✗	✗
	✓	✓	✓	✗	✓	✗	✗
	✗	✓	✗	✗	✓	✗	✗
	✓	✗	✗	✗	✗	✓	✗



Highest Certifications in Europe

COMPLIANCE & CERTIFICATIONS - INTERNATIONAL RECOGNITION

PROTENG and PROTENG Firexo fire extinguishing systems are effective and verified to ensure the safety of individuals and their activities.

The PROTENG fire extinguishing systems are proven to be effective in guaranteeing the safety of individuals and their activities. Our HFC227ea fire extinguisher and liquid fx51, part of the PROTENG brand, ensure compliance and safety by being non-toxic, environmentally friendly, and posing no health risks.



- 27MD S-01802

- Č.k.Z.2489/2020

- GARZ2.EX5036

- ISO 9001:2016
- ISO 14001:2016
- ISO 45001:2019
- AQAP 2110:2016

- BM OKF350000/
11645-1/2017

- AS5062:2016
Standard

- 2017-Effectis-R000223

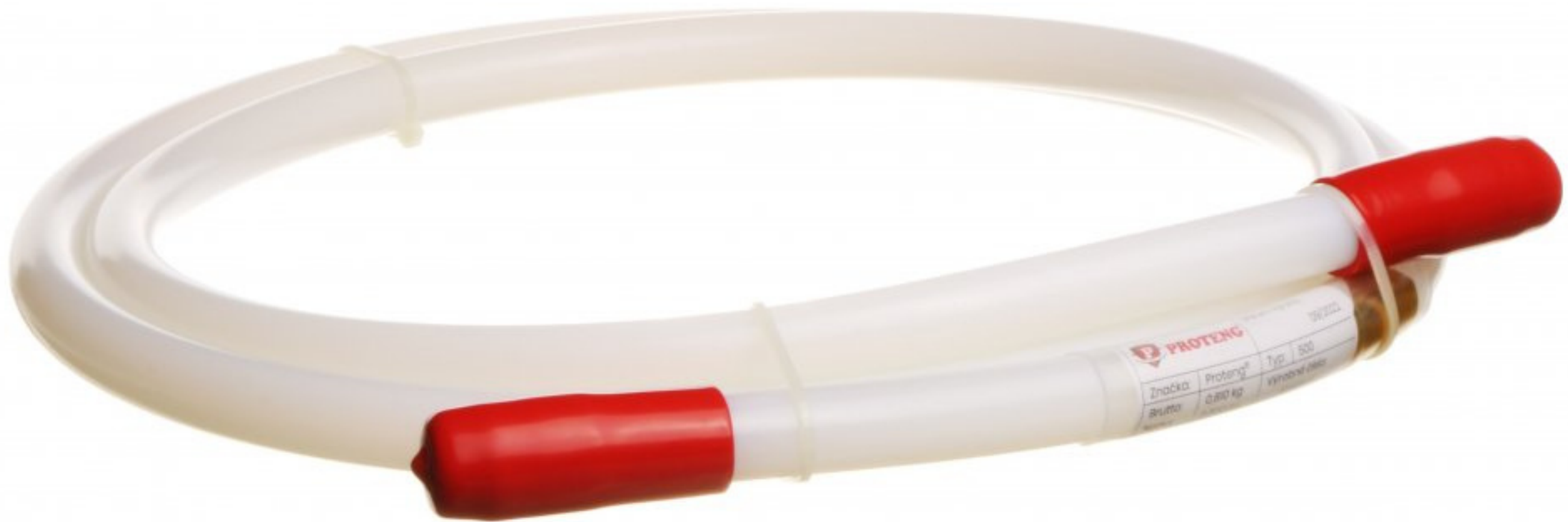




Protect your Assets

Traditional extinguishing devices are limited to certain products and specific types of fires, often causing consequential damage and posing a threat to life with dangerous ingredients if the wrong product is used. Proteng Firexo eliminates this risk and enables users to address any fire situation safely, ensuring effective extinguishing, minimal damage, and financial savings.

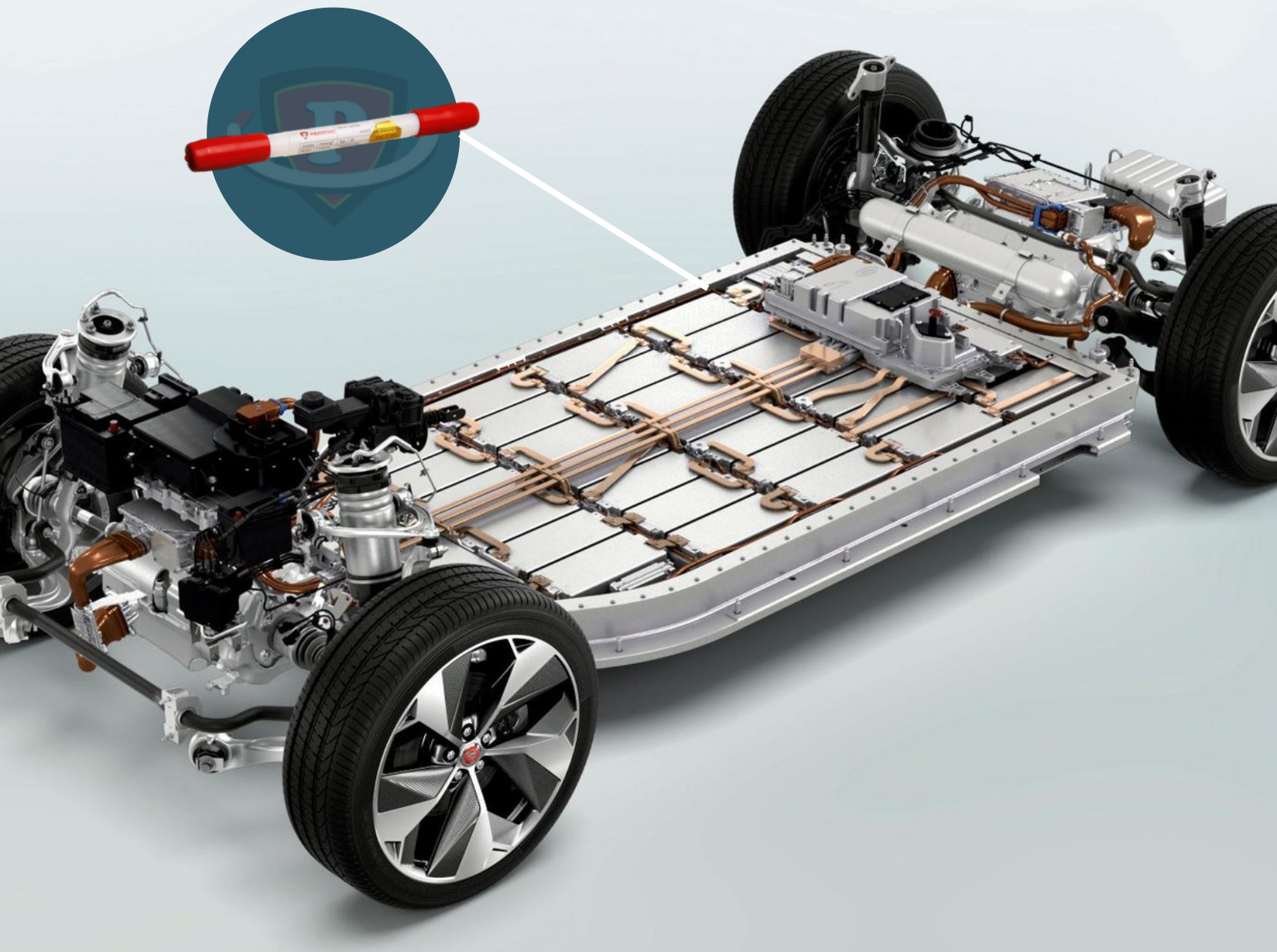




Environmental Benefits

The Firexo liquid fx51 base is precisely mixed with complex natural components found in all fires, making it pH neutral, biodegradable, and non-toxic. Firexo fx51 also possesses properties that inhibit combustion, significantly reducing the risk of re-ignition.





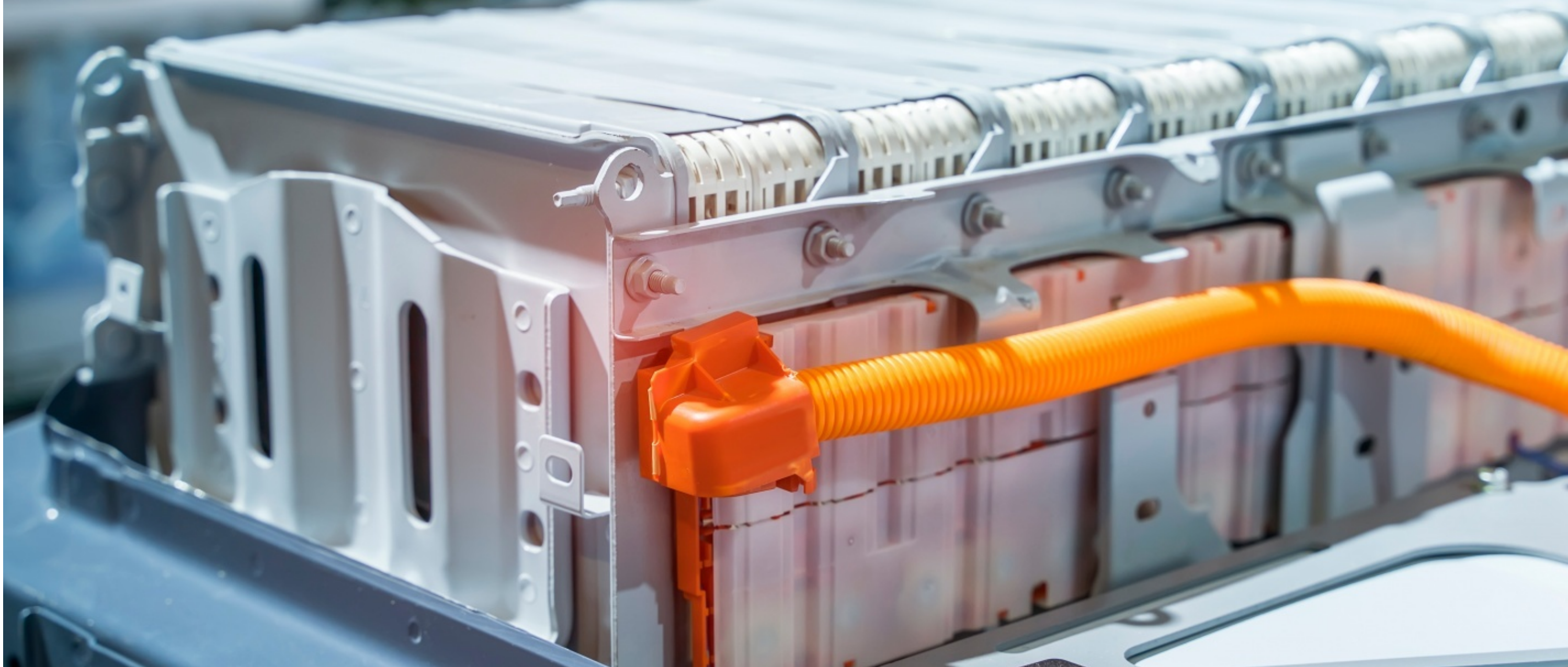
Effective for fire resistance

The Firexo liquid fx51 has undergone thorough testing and approval according to EN-3 fire extinguishing tests (article 15). During these tests, it was evaluated using standard extinguishing units of traditional size, demonstrating exceptional fire resistance.

Hidden in plain sight

With Proteng Firexo and its low-profile design, the amount of extinguishing agent required is dramatically reduced compared to water, powder, or foam. Any residues from the extinguishing process can be easily cleaned, and it covers even less surface area than traditional extinguishing agents.

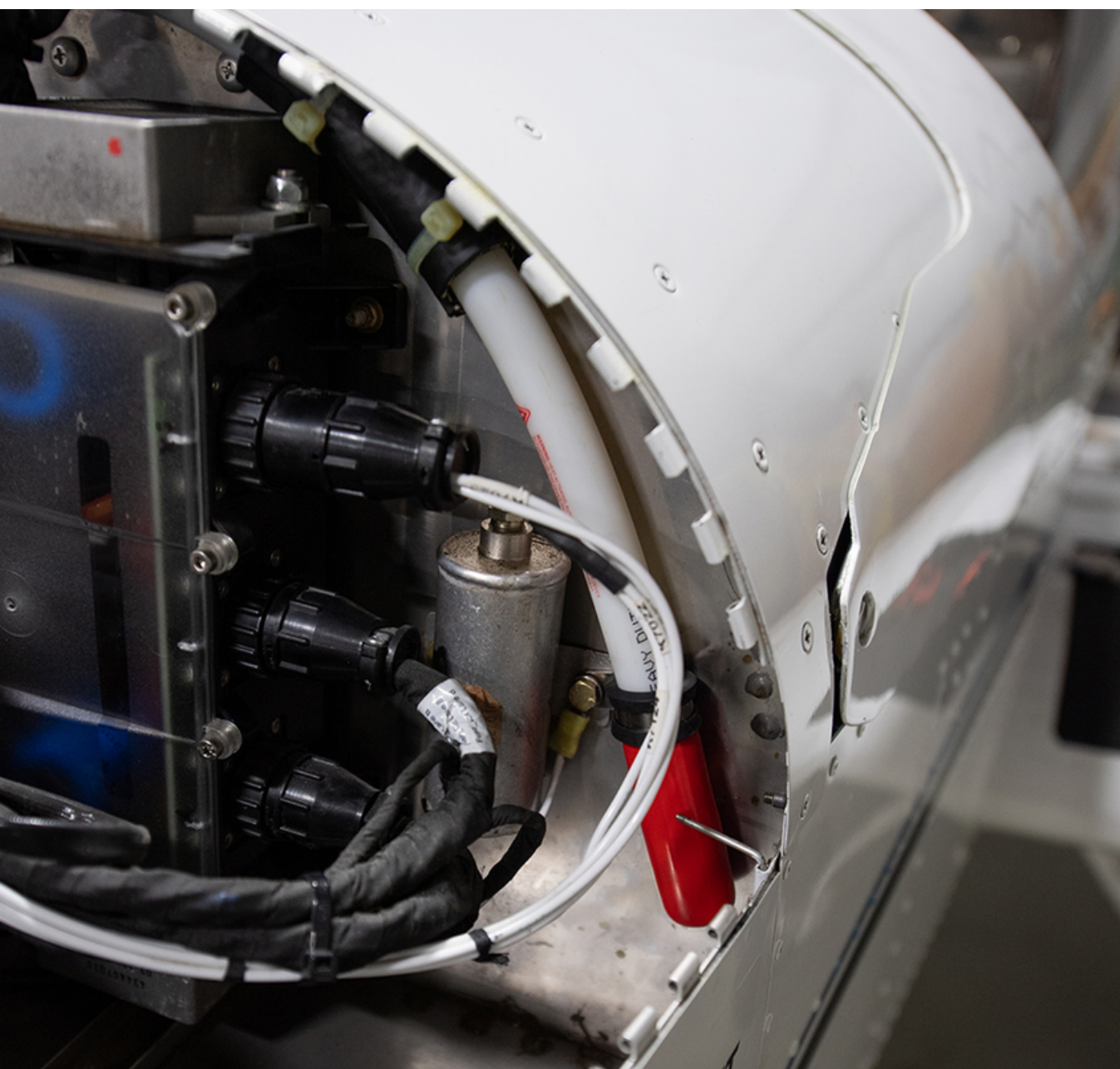




Placed around
the fire hazard

Proteng Firexo operates completely automatically, requiring no manual intervention. It extinguishes all types of fires in a fraction of the time, with minimal waste and residue.





Technical Specs.

Firexo extinguishing liquid fx51 is suitable for extinguishing any type of fire, tested and highly effective for fire classes A, B, C, D, E, F, including lithium-ion batteries.

It can be activated in cooled spaces, reducing maintenance costs, and is straightforward to install.

PROTENG 35

Polyamide hose:

Diameter 18mm

Volume of Extinguisher:

35g/cc \approx 0.07m³

Length of hose:

200 mm

Extinguishing Liquid:

FM 200 / Firexo fx51

Activation system:

At temperatures above 90°C

PROTENG 100

Polyamide hose:

Diameter 18mm

Volume of Extinguisher:

100g/cc \approx 0.25m³

Length of hose:

450 mm

Extinguishing Liquid:

FM 200 / Firexo fx51

Activation system:

At temperatures above 90°C

PROTENG 250

Polyamide hose:

Diameter 18mm

Volume of Extinguisher:

250g/cc \approx 0.50m³

Length of hose:

1100 mm

Extinguishing Liquid:

FM 200 / Firexo fx51

Activation system:

At temperatures above 90°C

PROTENG 500

Polyamide hose:

Diameter 18mm

Volume of Extinguisher:

500g/cc \approx 1.00m³

Length of hose:

2100 mm

Extinguishing Liquid:

FM 200 / Firexo fx51

Activation system:


At temperatures above 90°C





For pricing and ordering

 Online at protengspain.com

 By phone (+34) 951 627 099



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