



FXN FAQ

September 2025

FireXNull Inc.
288 Borrego, Irvine CA, 92618, USA

Telephone: +1 (888) 969 - 0010
Website: www.firexnull.com

Email: hello@firexnull.com

FIREXNULL MASTER FAQ

Version 1.0 – For Sales & Distributor Training

Last updated: September 2025

Prepared by: FireXNull Inc., Irvine, California

Section 1 — Introduction to FireXNull

Q: What is FireXNull?

FireXNull is a U.S.-based fire safety technology company headquartered in Irvine, California. We specialize in **automatic fire suppression devices** for enclosed electrical systems using **microcapsule-based technology**. Our solutions target hard-to-reach areas where traditional fire extinguishing systems cannot work effectively.

Q: What problem is FireXNull solving?

Electrical fires are among the most common yet most often overlooked fire risks. Enclosures in data centers, control panels, EVs, solar inverters, batteries, and marine systems can overheat or spark, leading to catastrophic fires. FireXNull protects these enclosures automatically without electricity or external activation.

Q: How are FireXNull products different from traditional fire suppression systems?

FireXNull products do not require sensors, piping, power, manual activation, or pressurized gas tanks. They contain **heat-sensitive microcapsules** embedded in stickers, rope, tape, or coatings. When the temperature reaches a critical threshold, the microcapsules burst and release **FK-5-1-12** (a clean agent), extinguishing fires instantly and without residue.

Q: How were FireXNull products introduced to the U.S. market?

Our technology was first showcased in the United States at **CES 2024** in Las Vegas, where it received strong industry recognition for fire suppression in micro-spaces and emerging technologies such as EV charging, BESS, and compact power systems.

Section 2 — Product Overview

FireXNull offers **four main product lines** designed to protect enclosed electrical equipment of different sizes and use cases:

1.

FXN Sticker

- Peel-and-stick fire suppression device for **small and mid-size enclosures (20–65 liters)**
- Activation temperature: around **248 °F (120 °C)**
- Recommended installation: **top interior panel** of enclosure
- Single-use device made from polymer microcapsules and FK-5-1-12 clean agent

2.

FXN Rope

- Flexible, clip-mounted fire suppression **rope for larger enclosures (65–2000 liters)**
- Activation temperature: around **428 °F (220 °C)**
- Recommended installation: horizontally across the **upper interior** of enclosure
- Provides localized heat-activated protection along its full length

3.

FXN Tape

- Adhesive fire suppression tape for **wire connections, terminals, and hotspots**
- Activation temperature: around **248 °F (120 °C)**
- Designed to wrap around cables, lugs, terminals, and busbars to prevent ignition
- Compatible with electrical tape layering for durability

4.

FXN Microcapsules (OEM Material)

- Microcapsules containing fire suppressing agent for use in **paints, coatings, panels, foams, polymers, or films**
 - Available in 100, 200, and 300 µm sizes
 - Activation temperature ranges from **212–320 °F (100–160 °C)**
 - Ideal for OEM integration in custom fire-safe materials (walls, cables, battery shells, etc.)
-

Let me know when you're ready, and I'll continue with:

- Section 3 — How the Technology Works
- Section 4 — Installation & Use
- ... through Section 10 — Troubleshooting & Field Questions

Section 3 — How FireXNull Technology Works

Q: What is the core technology behind FireXNull products?

FireXNull products use a proprietary **microcapsule-based fire suppression system**. Each product contains thousands of microscopic polymer capsules filled with the clean agent **FK-5-1-12**. These capsules rupture when exposed to high heat, releasing the agent directly at the source of ignition.

Q: What is FK-5-1-12?

FK-5-1-12 (commercially known as Novec 1230 or a similar clean agent chemical) is a **non-conductive, non-corrosive, residue-free extinguishing agent**. It absorbs heat and interrupts the chemical chain reaction of fire — without reducing the oxygen level or introducing harmful material into the enclosure.

Q: At what temperature do the products activate?

Activation temperature varies by product type:

- FXN Sticker: around **248°F (120°C)**

- FXN Tape: around **248°F (120°C)**
- FXN Rope: around **428°F (220°C)**
- FXN Microcapsules: typically **212–320°F (100–160°C)** depending on formulation

Q: How fast does the agent release and extinguish a fire after activation?

Once the activation temperature is reached, the microcapsules rupture and release the clean agent within **seconds**. Typical full activation and suppression takes **between 12–18 seconds** depending on enclosure size and ignition intensity.

Q: Is this a pressurized system?

No, FireXNull products are **non-pressurized** and do not use tanks or sensors. This makes them safe, compact, and ideal for enclosed spaces where conventional suppression systems are hard to install.

Section 4 — Installation & Use

Q: Do FireXNull products require power or wiring to operate?

No. All FireXNull products are **fully passive and self-activating** based on temperature. They work even in power loss scenarios.

Q: Where should FXN Sticker be installed?

FXN Sticker should be mounted on the **top interior surface** of the enclosure, close to likely heat and spark sources. For best performance, the enclosure should remain closed during operation so the extinguishing agent can accumulate effectively.

Q: Where should FXN Rope be installed?

FXN Rope should be positioned horizontally along the **upper portion of the enclosure**, using the provided clips or zip ties. It should be above the most heat-sensitive components, but must not be compressed or bent sharply where microcapsules can be damaged.

Q: How should FXN Tape be used?

FXN Tape should be wrapped snugly around electrical hotspots — like busbar joints, relay switches, terminal blocks, and cable connectors. Additional sealing with standard electrical tape is allowed for environmental protection.

Q: Do the products need professional installation?

For small and medium electrical enclosures, installation can be performed by a certified technician or trained end user. For larger industrial environments, an electrician or safety officer should perform installation according to local standards.

Q: How do I know if a product has been activated?

- FXN Sticker: visible cracking or shading in the sticker surface
- FXN Rope: softened or warped rope in localized areas
- FXN Tape: darkening or bubbling of the tape surface

After any activation, **the product must be replaced.**

Section 5 — Key Specifications

Product	Activation Temp	Coverage Volume	Enclosure Volume	Typical Use Case	Form Factor
FXN Sticker	~248°F (120°C)	20–65 liters	0.7ft ³ -2.3ft ³	Small electrical enclosures	Adhesive patch
FXN Rope	~428°F (220°C)	65–2000 liters	2.5ft ³ -70ft ³	Large control panels, UPS, EV cabinets	Flexible fire rope
FXN Tape	~248°F (120°C)	Localized area		Wire joints, terminals, busbars	Adhesive fire tape
FXN Microcapsules	212–320°F (100–160°C)	Custom defined		OEM coatings, films, moldable parts	100–300µm particles

Section 6 — Certifications & Compliance

Q: Are FireXNull products certified?

FXN Sticker and FXN Tape products are **UL Recognized components**. FXN Rope is currently undergoing certification review and falls under a category that UL has acknowledged is still emerging in the market. FireXNull products follow globally accepted fire-safety standards where applicable, including **NFPA 2001 guidelines** for clean agent fire suppression systems.

Q: What regulations does FK-5-1-12 comply with?

FK-5-1-12 is **EPA SNAP-approved**, has **zero ozone depletion potential (ODP)**, and a **Global Warming Potential (GWP) of less than 1** over 100 years, making it one of the safest clean agents on the market. It also meets environmental requirements for EU RoHS and REACH.

Q: Are FireXNull products considered PFAS?

No. FireXNull products do not contain PFAS chemicals. FK-5-1-12 is not classified as a PFAS and degrades rapidly in the atmosphere.

Q: Do FireXNull products follow OSHA or EPA SDS requirements?

Yes, every product is accompanied by a **Safety Data Sheet (SDS)** compliant with both OSHA HazCom and global GHS standards. These SDS documents cover safe handling, disposal, exposure limits, and emergency procedures.

Q: Can FireXNull products be used in critical infrastructure?

Yes. FireXNull products are used in industrial, medical, aerospace, marine, and energy infrastructure applications, provided local standards allow for clean-agent systems and passive suppression assemblies.

Section 7 — Shelf Life, Shipping, and Warranty

Q: What is the shelf life of FireXNull products?

Unopened and properly stored products have a **shelf life of 2 years**. Once installed, the operational life is **up to 5 years** under recommended conditions. Products should be replaced at the end of life or after any activation.

Q: How should products be stored before installation?

Store in a **cool, dry environment (50–86°F or 10–30°C)**. Avoid direct sunlight and high humidity. Do not expose to sources of heat or mechanical pressure.

Q: Are FireXNull products regulated as hazardous materials for shipping?

No. FireXNull products are **not considered hazardous for transport** in their sealed state. They can be shipped by air or ground without special hazmat handling.

Q: What is the warranty period?

FireXNull products carry a **limited warranty** against manufacturing defects for the duration of their service life, provided they are installed and used under specified conditions. Warranty does not cover damage due to misuse, environmental exposure, or improper installation.

Section 8 — Distributor FAQ

Q: What is the minimum order quantity (MOQ) for distributors?

MOQ varies by agreement, but typical initial MOQ for new stocking distributors is **USD \$20,000** (mixed SKUs allowed). Volume discounts may apply.

Q: Do distributors receive dealer pricing?

Yes. FireXNull offers a **standard 25% distributor discount** off the direct sales price list for qualified stocking distributors.

Q: What support is provided for marketing and product education?

FireXNull provides all distributors with:

- Product images and datasheets
- Sales handbook
- Training PDFs and demo videos
- Sample kits (upon request)
- Access to technical support

Q: What is lead time for bulk orders?

Lead times range from **3 to 5 weeks** depending on order size and product mix. Rush orders may be available upon request.

Q: How are products packaged for distribution?

Each product is individually sealed and labeled with its installation and expiration date. Bulk purchases come in custom cartons and labeled inner boxes for warehouse handling.

Section 9 — OEM Microcapsules FAQ

Q: Who uses FireXNull microcapsules?

OEMs who need built-in fire suppression within materials like **paint, polymers, textiles, foams, and paneling**. These capsules are integrated into the base material to provide automatic thermal fire suppression.

Q: What size microcapsules are available?

100 µm, 200 µm, and 300 µm capsule sizes are available, depending on material thickness and distribution requirements.

Q: How should microcapsules be stored?

Store in sealed containers at **50–86°F (10–30°C)**, <80% humidity, away from UV light. Use within 2 years of purchase.

Q: Are microcapsules safe to handle during manufacturing?

Yes, they are stable under normal handling conditions. Standard PPE (gloves + dust mask) is recommended if mixing into powdered or sprayed materials. Follow SDS guidance.

Q: What industries commonly use microcapsule integrations?

- Electric vehicle and battery housings
- Aerospace panels and films
- Industrial coatings
- Data center wall and floor panels
- Smart home appliances
- Marine compartments

Section 10 — Troubleshooting & Field Support

Q: What should I do if a product activates?

1. Power down the system immediately
2. Allow the enclosure to cool and ventilate
3. Inspect internal components for damage
4. Remove and replace the FireXNull device
5. Follow local safety protocols before re-energizing

Q: Why didn't the product activate during a fire incident?

Possible causes include:

- Low enclosure temperature (below activation threshold)
- Improper installation location
- Excessive ventilation preventing heat buildup
- Enclosure not sealed properly

Always follow the installation guidelines to ensure proper placement and performance.

Q: What if there's visible capsule leakage but no fire event?

This may indicate extreme heat exposure or damage during handling. Replace the product and inspect the enclosure to determine if there's a heating issue.

Q: Who should I contact for field support or escalation?

Contact FireXNull at:

☎ +1 (888) 969-0010

hello@firexnull.com

288 Borrego, Irvine, CA 92618
