

TECHNICAL DATA SHEET: FXN Tape

PRODUCT IDENTIFICATION	
Product Name	FXN Tape
Recommended Uses	For wrapping wire junctions and electrical connections to suppress early-stage fires. Ideal for use in electrical systems and enclosures.
Fire Class	Suitable for classes A,B, C and E (<i>Class E for International Market</i>) early stage fires.
Technical Description	A fire suppression tape composed of composite materials, active binder, and microcapsules containing a fire suppressing agent. Tape sizes vary by model.

Component	Content
Fluorocarbon fluid agent: Perfluoro(2-methyl-3-pentanone) Shell Polymer: Poly (Urea-formaldehyde) resin and gelatin	60%
Fatty acids, C18-unsatd., dimers, polymers with epichlorohydrin	20.18%
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	9.48%
Bisphenol A diglycidylether	6.18%
Benzylalcohol	0.85- 1.09%
Isophoronediamine	0.36- 0.61%
n-Butyl glycidylether(BGE)	0.54%
Triethylenetetramine	0.19%
Other	1%

APPLICATIONS

- 1. Primary Use:** FXN Tape is specifically designed for attachment to electrical wires and connections. It acts autonomously to suppress fires at the wire connection points, junction boxes, etc.
- 2. Fire Prevention:** The tape prevents the spread of fire by suppressing initial flames and delays the progression of fire.
- 3. Suitable Application:** Protects electrical connections from fire risks caused by overheating. Ideal for electrical panels, residential/commercial systems, and electronic devices in fire-prone areas.
- 4. Operational Scope:** Employed across a range of electrical wiring, FXN Tape is a critical safety component for industrial, commercial, and residential wires prone to electrical fires.

PRODUCT SPECIFICATIONS

Model No.	Tape Size (In. width x ft. length)	Tape Size (mm width x m length)
FXN-T15	0.59 x 3.28	15 x 1
FXN-T15L	0.59 x 32.8	15 x 10
FXN-T25	0.98 x 3.28	25 x 1
FXN-T25L	0.98 x 32.8	25 x 10
FXN-T50	1.97 x 3.28	50 x 1
FXN-T50L	1.97 x 32.8	50 x 10
FXN-T100	3.94 x 3.28	100 x 1
FXN-T100L	3.94 x 32.8	100 x 10

Notes:

Nominal Thickness 0.0157 inches (0.3~0.5mm)

Thickness Tolerance: ±0.0008 inches (±0.02mm)

Custom manufacturing options may be available for the Tape length.

STORAGE SPECIFICATION

Activation Temperature	248±9°F (120 ± 5°C)
Storage Temperature	-40 to +149°F (-40°C to +65°C)
Shelf Life	60 months

HOW TO USE

1. **Prepare the Surface:** Ensure the installation surface area is clean, dry, and free from dust, oil, or other contaminants.
2. **Attach the Tape:** Peel off the adhesive layer and firmly wrap the tape around the wires at risk of fire (e.g., electrical wire connections).
3. **Insulation (Optional):** For added electrical shock protection, apply electrical insulation tape over the fire suppressing tape.
4. **Storage:** Store unused tape in a dry place, away from sunlight and out of reach of children, at temperatures between -40°F and +149°F and below 80% Humidity.

PRECAUTIONS & USAGE INSTRUCTION

1. **Avoid Exposure:** Store away from prolonged sunlight and humidity above 80%
2. **Intended Use:** Use the tape solely for its designed fire suppression purpose.
3. **Replacement:** Replace the tape every 60 months or immediately if it shows signs of combustion or damage. Important: Do not reuse tape after it has been activated.
4. **No Reuse:** Do not reuse tape after a fire event.
5. **Safe Storage:** Store in a secure location, out of reach of children.
6. **Environment:** Environmental factors such as humidity and prolonged sunlight exposure can impact fire suppression effectiveness.
7. **Immediate Use:** Remove the protective layer and use the tape immediately after removal.



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