



# Fire Protection Products

## 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip

Technical Data Sheet

July / 2020

### Product Description

3M™ Fire Barrier FS-195+ Intumescent Wrap Strip is one-part, organic/inorganic, fire resistive elastomeric sheet with aluminum foil on one side. Designed to firestop metallic and non-metallic penetrations in fire rated assemblies.

When exposed to a heat source, 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip expands and forms a char to deter the spread of fire. The intumescent technology allows for its use with plastic pipes, cable jacketing and insulation materials.

### Product Features

- Intumescent – Expands when exposed to heat sealing voids created by combustible items
- Smoke seal – retards spread of toxic by-products of combustion
- Superior aging properties
- Simple, cost effective installation
- Low flame spread and smoke development
- Re-enterable. No special tools required
- Low odor
- High quality aluminum foil serves as an installation aid.

### Applications

3M™ Fire Barrier FS-195+ Intumescent Wrap Strip provides a rapid, cost-effective solution for firestopping combustible penetrants where fire resistance is necessary. Its unique intumescent action is effective in a fire scenario sealing and preventing the passage of flames and smoke.

3M™ Fire Barrier FS-195+ Intumescent Wrap Strip can be used to seal a variety of penetration types including but not limited to: cable bundle, metal pipe, plastic pipe and conduit, insulated metal pipe and blank opening.

### Specifications

3M™ Fire Barrier FS-195+ Intumescent Wrap Strip is tested according to the following standards:

- ASTM E814
- UL 1479, CAN/ULC S115

3M™ Fire Barrier FS-195+ Intumescent Wrap Strip shall be installed following a tested and listed third party system. Installation shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC.

For available sizes, check with your 3M representative.

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Performance and Typical Physical Properties	Colors Available	Red/Silver
	Unit	2in. (5cm) x 24in. (61cm) Strips.
	Surface Burning Characteristics (ASTM E 84)	Flame Spread: 5 Smoke Developed Index: 50
	Hardness	70-90 Shore A
	Tensile Strength (ASTM D 412-83)	104 psi
	Elongation at Break (ASTM D 412-83)	514%
	Intumescent Activation	Expansion sequence begins 300°F (150°C) Significant expansion 350°F (175°C) Multidirectional free expansion 8x Size (average)
	Service Temperature	-40°F to 350°F (-35°C to 176°C)
	Thermal Conductivity (ASTM C 518)*	0.034 W/m°C @ 43°C (2.39 BTU-in/hr/ft²/°F @ 110°F) 0.035 W/m°C @ 74°C (2.41 BTU-in/hr/ft²/°F @ 165°F)
	*Calculated based on a 1/8in. (3mm) thick sheet	

### Installation Techniques

**Equipment:** 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip may be applied by hand entirely

**Installation Details:** Apply 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip by hand. Third party tested and listed systems details must be followed for each specific application

**Limitations:** Do not apply 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip when surrounding temperature is less than 32°F (0°C) and in conditions where seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants or green or partially vulcanized rubber). Do not apply 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip to wet or frost-coated surfaces or to areas that are continuously damp or immersed in water. Avoid repeated freeze/thaw exposures of the 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip prior to installation.

*Consult a 3M Authorized Fire Protection Products Distributor Sales Representative for applicable UL, cUL, ULC, Intertek or other third-party drawings and system details*

### Maintenance

No maintenance is expected to be required when installed in accordance with the 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip tested and listed third party systems. Once installed, if any section of the 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip is damaged, the following procedure will apply: Any damaged product must be cut out and removed. The open area created must then be filled with new product following third party tested and listed systems.

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Storage and Shelf Life	<p>3M™ Fire Barrier FS-195+ Intumescent Wrap Strip should be stored indoors in dry conditions. It is recommended that the product remains in heated storage above 40°F (4°C) prior to installing material.</p> <p>When stored indoor in dry conditions above 40°F (4°C) and below 100°F (38°C), 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip shelf life is indefinite.</p> <p>Lot numbering (e.g. 017316): First three digits = Last three digits of year manufactured (017316 = 2017), fourth to sixth digit = Julian Date (017316 = 316<sup>th</sup> day of year 2017, November 12, 2017).</p>
Availability	<p>Available from 3M Authorized Fire Protection Products Distributors.</p> <p>For additional technical and purchasing information, call 1-800-328-1687 or visit <a href="http://3M.com/firestop">3M.com/firestop</a>.</p>
Safe Handling	<p>Consult Safety Data Sheet prior to handling and disposing of 3M™ Fire Barrier FS-195+ Intumescent Wrap Strip.</p>
Technical Information	<p>The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.</p>
Product Use	<p>Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.</p>
Warranty, Limited Remedy and Disclaimer	<p>Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.</p>
Limitation of Liability	<p>Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability</p>

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