

Fire Protection Products 3M[™] Interam[™] Mat I-10/I-10A

Technical Data Sheet	September / 2019	
Product Description	3M [™] Interam [™] Mat I-10/I-10A is a ceramic fiber-based material that expands in a low-density insulation blankets when exposed to high temperatures or flam These mats are used to protect against fire and to act as high temperature seal mechanisms. The mat can be easily wrapped around complex shapes and surfaces. This feat allows them to be easily incorporated into various fire protection systems such electrical raceway fire-breaks and fire rated roofing systems. Exposure to fire cause intumescence or expansion, thus filling openings to block the movement flames and retard the transfer of heat. The intumescent characteristic of the material offers another unique opportunity using the mats as a high temperature sealing or mounting device. As a sealant a gasketing material, systems can be engineered to have the mat expand and fi desired area. The mat's pressure of expansion can also be used to hold devices place. The Interam [™] Mat I-10/I-10A is lightweight, flexible and easily cut to the desir size and shape. Custom die cut parts are available to simplify installation of gask or other uniquely shaped components.	
Product Features	 Expands only in thickness direction Non-flame supporting Allows heat dissipation in unexpanded state Inhibits heat transfer when expanded Lightweight and flexible Easily cut to desired size and shape Economical and easy to install — no surface preparation required 	
Applications	 Electrical circuit protection Cable tray fire-breaks Junction box protection Expansion joints High temperature gasketing Fire rated roofing systems Fire and smoke protection in OEM applications 	

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Specifications	Installation shall be in strict accordance with manufacturer's written instructions, as shown on approved shop drawings. 3M [™] Interam [™] Mat I-10/I-10A shall be a flexible, intumescent mat with low smoke evolution capable of being layered for 1- 2- and 3-hour electrical system applications. When properly installed, 3M [™] Interam [™] Mat I-10/I-10A helps protect the encapsulated item(s) against heat penetration and flame spread. 3M [™] Interam [™] Mat I-10/I-10A shall be listed by independent test agencies such as UL, ULC, Intertek, or FM. Suitability for the intended application should be determined prior to installation.			
	Section 07 80 00 Section 07 84 00 Section 26 01 00		aintenance of Electric	cal Systems
Performance and Typical Physical Properties	Product Availability	I-10A Mat 3/16 in. 98-0400-0229-1	I-10 Mat 1/16 in. 98-0400-0506-2	I-10 Mat 3/16 in. 98-0400-0507-0
	Mat Lamination	4 mil aluminum (one side)	None	None
	Thickness	0.202 in. (5.13 mm)	0.0689 in. (1.75 mm)	0.198 in. (5.02 mm)
	Roll Length	25 ft. (7.62 m)	75 ft. (22.8 m)	25 ft. (7.62 m)
	Roll Width	49 in. (1.24 m)	50 in. (1.27 m)	50 in. (1.27 m)
	Weight/Unit Area	0.68 lb/ft² (3,32kg/m²)	0.21 lb/ft ² (1,05 kg/m²)	0.63 lb/ft ² (3,10 kg/m ²)
	Bulk Density	41.2 lb/ft ³ (660kg/m ³)	38.5 lb/ft ³ (617 kg/m ³)	39.4 lb/ft ³ (631kg/m ³)
	UL Certification	Yes	No	No

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	Surface Burning Characteristics (ASTM E 84/UL 723) Heat Expanding Characteristics	Flame Spread: 3.7 Smoke Developed Index: 0 Fuel Contribution: 0			
		Expansion Begins:665F (352C)Significant Expansion:1000F (538C)Expansion Ratio:3x in Thickness DirectionLoss on Ignition:5-16%Refractory Temperature:2200F (1204C)			
	Thermal Conductivity	Unexpanded 0.033 BTU/ft/hr-F @ 110F (0.057 W/m-C @ 43C) 0.048 BTU/ft/hr-F @ 210F (0.083 W/m-C @ 99C) 0.067 BTU/ft/hr-F @ 575F (0.116 W/m-C @ 302C) Expanded 0.038 BTU/ft/hr-F @ 750F (0.066 W/m-C @ 399C) 0.053 BTU/ft/hr-F @ 1100F (0.092 W/m-C @ 593C) 0.078 BTU/ft/hr-F @ 1450F (0.135 W/m-C @ 788C)			
	Mean Specific Heat	Unexpanded - 0.242 BTU/lbF @ 75-400F (1013 J/kg-C @ 24-204C) Expanded - 0.265 BTU/lbF @ 75-1650F (1109 J/kg-C @ 24-899C)			
Installation Techniques	Consult a 3M Authorized Fire Protection Products Distributor or Sales Representative for applicable UL, ULC, Intertek or other third-party drawings and system details.				
	For a typical mat installation, the following tools may be of assistance: razor knife or large scissors (to cut mat), T-Square or similar straight edge (to help with straigh cuts of mat), tape measure (to measure mat required), marking pen (to identify layer of mat), 3M [™] Aluminum Foil Tape 425 (to seal cut edges of mat), rubber roller (to ensure good adhesion of tape), Scotch® Filament Tape 898 (to temporarily hold mat pieces in place - optional), stainless steel bands 1/2 in. wide x .020 in. min thick (12.7 mm x .5 mm) and band clips or stainless steel tie wire to help secure mat, band tensioners, 3M [™] Fire Barrier Sealant CP 25WB+ (where required).				
	Determine the appropriate number of layers required for your application. Ensure proper covering and protection of joints, seams, overlaps and any area that requires special cutting and fitting. Ensure proper use of banding to mechanically restrain the mat system. Refer to listed system details for sealant, securement requirements, layer requirements and other installation procedures.				
Maintenance	No maintenance is expected to be required when installed in accordance with listed system details. Once installed, if any section of the 3M [™] Interam [™] Mat I-10/I-10A damaged, the following procedure will apply: for damage to the outer metallic covering, install 3M [™] Aluminum Foil Tape 425 to overlap a min. 2" (50.8 mm) in al directions. For more extensive damage (including damage to the mat material), contact 3M Fire Protection Products at 1-800-328-1687.				

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Storage and Shelf Life	3M™ Interam™ Mat I-10/I-10A is packaged in a corrugated cardboard box, 1 roll per box.
	3M™ Interam™ Mat I-10/I-10A is stable under normal storage conditions, store in a dry warehouse environment in original, unopened container. Normal stock and stock rotation practices are recommended.
	Product shelf life is indefinite when stored indoors.
Availability	Available from 3M Authorized Fire Protection Products Distributors. For additional technical and purchasing information, call 1-800-328-1687 or visit 3M.com/firestop.
Safe Handling	Consult Safety Data Sheet prior to handling and disposing of 3M [™] Interam™ Mat I-10/I-10A.
Technical Information	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.
Warranty, Limited Remedy and Disclaimer	Warranty: 3M warrants that the Product will be free from defects in material and manufacture during the Extended Warranty Period. If the Product does not conform to this warranty during the Extended Warranty Period, then 3M will, as the sole and exclusive remedy, provide replacement Product (or, if replacement material is unavailable, refund the Product purchase price) for the Project. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.
	This warranty is void if the Product is not installed: (1) in accordance with the applicable UL or Intertek listings; (2) in accordance with the applicable Product data sheet and installation instructions; (3) in accordance with the specifications for the Project; and (4) by a 3M trained Installer. This warranty does not cover damage or failure caused by Product misuse, improper Product storage, improper Product installation, Product or Project abuse, natural disasters, or other force majeure events.
Limitation of Liability	EXCEPT FOR THE LIMITED EXTENDED WARRANTY AND REMEDY STATED ABOVE, AND EXCEPT TO THE EXTENT PROHIBITED BY LAW, 3M WILL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM OR RELATING TO THE PRODUCT, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL, (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR BUSINESS OPPORTUNITY), REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ASSERTED, INCLUDING, BUT NOT LIMITED TO, WARRANTY, CONTRACT, NEGLIGENCE, OR STRICT LIABILITY.
Product Selection and Use	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. As a result, customer is solely responsible for evaluating the 3M product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.



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