


# TECHNICAL DATA SHEET

## Tiger Foam™ Slow Rise Low Pressure HFO Spray Foam



### LOW PRESSURE SPRAY POLYURETHANE FOAM INFORMATION

<b>Description</b>	Low pressure, medium density, two-component pour-in-place (PIP) or as a Spray Polyurethane Foam (SPF) polyurethane foam system
<b>PIP</b>	Pour-in-place designation refers to slow tack-free time, more pourable properties
<b>Applications</b>	Designed to fill cavities, molds, fixtures, holes, or voids. The foam can be dispensed into clean and dry voids of various size to fill, seal, insulate, provide buoyancy, strengthen, reduce vibration or deaden sound. Residential wall assemblies that use drywall or gypsum board may be prone to cracking or buckling due to either overfilling the cavity or plugging the pressure relief holes. Tiger Foam Slow Rise can also be used as an SPF and sprayed onto vertical or horizontal surfaces.
<b>Preparation for use</b>	Area to be filled must have minimal obstructions and if used in a residential wall cavity have no existing insulation. Before using, determine the structural stability of the area to be filled, certain applications may require clamping or bracing to provide uniform support against foaming pressure. Read SDS, Operating Instructions, and Product Stewardship Guidelines. For additional information go to <a href="http://www.tigerfoam.com">www.tigerfoam.com</a> .
<b>Use</b>	Warm/Cool chemical to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.
<b>PPE</b>	 <p>Recommend using in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and SDS prior to use of any product.</p>
<b>Note</b>	FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured foam is inert and non-toxic. Amount (weight) of foam needed in pounds = cavity size (ft <sup>3</sup> ) x desired density (lb/ft <sup>3</sup> )
<b>Temperature Guidelines</b>	See chart located on page 2
<b>Disposal</b>	Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in accordance to applicable federal, state, provincial and local regulations.
<b>Shelf-life</b>	6 months
<b>Compatibility</b>	Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene (i.e. PEX) or other plastics. The product is not resistant to UV rays, if left exposed the product should be coated or painted.

### TECHNICAL DATA

### STANDARD

### RESULTS

TECHNICAL DATA	STANDARD	RESULTS
<b>Density</b>	ASTM D1622	2.1 lbs./ft <sup>3</sup> (35.2 kg/m <sup>3</sup> )
<b>Compressive Strength</b>	ASTM D1621	23 lbf/in <sup>2</sup> (158.6 kPa) Parallel
<b>Dimensional Stability</b>	ASTM D2126	+/- 5%
<b>Tack-Free/Expansion Time</b>	Tack-Free/Expansion Time	60-90 seconds
<b>Closed-Cell Content</b>	ASTM D2856	>90%
<b>Cuttability</b>		5-10 minutes
<b>Title 33</b>	33 CFR 183.114	Meets the requirements for flotation
<b>R- Value</b>	ASTM C518	Initial 5.9

### APPROVALS/STANDARDS/CLASSIFICATIONS

<b>Title 33</b>	Tiger Foam Slow Rise Systems meet the specification requirements for flotation in Title 33 Code of Federal Regulations, paragraph 183.114
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**TEMPERATURE**

<b>Chemical Storage Temperature</b>	Optimum 75-85°F (24-29°C) but not <60°F (16°C) or >90°F (32°C)
<b>Outside Application Temperature</b>	40-100°F (4-38°C)
<b>Process Core Chemical Temperature</b>	75-85°F (24-29°C)
<b>Surface Temperature (Substrate/Mold)</b>	40-100°F (4-38°C)
<b>Cured Foam</b>	-200°F to +240°F (-129°C to +116°C)

**YIELD<sup>1</sup>**

	<b>Weight (Including Packaging)</b>	<b>Density 2.1</b>	<b>Density 2.5</b>	<b>Density 3.0</b>
<b>TF200SR</b>	41 lbc	12.7 ft <sup>3</sup> (0.36 m <sup>3</sup> )	10.7 ft <sup>3</sup> (0.30m <sup>3</sup> )	8.9 ft <sup>3</sup> (0.25m <sup>3</sup> )
<b>TF600SR</b>	115.7 lbs.	41.7 ft <sup>3</sup> (1.18 m <sup>3</sup> )	35 ft <sup>3</sup> (0.99m <sup>3</sup> )	29.2 ft <sup>3</sup> (0.83m <sup>3</sup> )

NOTE: Physical properties shown are typical and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions and may vary upon use, temperature and ambient conditions. Right to change physical properties as a result of technical progress is reserved. Yields shown are optimum and will vary slightly depending on ambient conditions and application. This information supersedes all previously published data. The customer is responsible for deciding whether products and associated TDS information are appropriate for customer's use.

**WARNING:**

Tiger Foam low pressure one-component polyurethane foam sealants and adhesives (OCF), low pressure spray polyurethane foams and foam adhesives (SPF), and low pressure pour-in-place polyurethane foams (PIP) are composed of diisocyanate, hydrofluorocarbon, hydrocarbon, hydrofluoroolefin or hydrochlorofluoroolefin blowing agent, and a polyol blend. The urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat about 240°F (116°C). Read all instructions, and SDS (Section 8) prior to use of any product. Tiger Foam polyurethane products are for professional use only.

Before using any OCF, SPF or PIP product, read the SDS and instructions carefully before use ([www.tigerfoam.com](http://www.tigerfoam.com)). **OCF Products:** wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Recommend using in a well-ventilated area. Avoid breathing vapors. **SPF/PIP Products:** wear protective glasses with side shields or goggles unless using a full-face respirator, nitrile gloves, and clothing that protects against dermal exposure. Recommend dispensing product in a well-ventilated area and with certified respiratory protection or a powered air purifying respirator (PAPR); however, well ventilated exterior applications may not need respiratory protection. It is the responsibility of the employer to complete a PPE evaluation and/or exposure assessment to determine if respiratory protection is required. Personal Protective Equipment can be purchased through Commercial Thermal Solutions, Inc. at [www.tigerfoam.com](http://www.tigerfoam.com).

Refer to each product's TDS for specifications, testing results, and other attributes. The customer is ultimately responsible for deciding whether products and associated TDS information are appropriate for customer's use. For professional use only. Building practices unrelated to materials can lead to potential mold issues. Material suppliers cannot provide assurance that mold will not develop in any specific system. Product uses a non-flammable compressed gas. Keep away from heat. Smoking and open flames, including hot work, should be prohibited in the vicinity of a foaming operation. Avoid contact with skin and eyes. May cause sensitization by inhalation and/or direct skin contact. Persons previously sensitized to Isocyanates may develop a cross-sensitization reaction to other isocyanates. Avoid prolonged or repeated breathing of vapor. Use in conformance with all local, state and federal regulations and safety requirements. Failure to strictly adhere to any recommended procedures and reasonable safety precautions shall release ICP Building Solutions Group of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call Commercial Thermal Solutions, Inc. 1-800-664-0063.

**LIMITED WARRANTY and LIMITATION OF DAMAGES:** Commercial Thermal Solutions, Inc. warrants only that the product shall meet Commercial Thermal Solutions, Inc. specifications for the product when shipped by Commercial Thermal Solutions, Inc. NO OTHER EXPRESSED OR IMPLIED WARRANTIES APPLY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OUTSIDE THE U.S. AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. Buyer and users assume all risks of use, handling and storage of the product. Failure to strictly adhere to any recommended procedures shall release Commercial Thermal Solutions, Inc. from all liability. The user of the product is responsible to determine suitability of the product for the particular use. The exclusive remedy as to any breach of warranty, negligence or other claim is limited to the replacement of the product. Liability for any indirect, incidental or consequential damage or loss is specifically excluded.

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