


# TECHNICAL DATA SHEET

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



### LOW PRESSURE POLYURETHANE HFC SPRAY FOAM INFORMATION

<b>Description</b>	Low pressure, medium density, two-component pour-in-place (PIP) 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.
<b>Preparation for use</b>	Area to be filled must have minimal obstructions and 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>	12 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> In-place	ASTM D1622	2.0 lbs/ft <sup>3</sup> (32 kg/m <sup>3</sup> )
<b>Density</b> Free-Rise		1.75 lbs/ft <sup>3</sup> (28 kg/m <sup>3</sup> )
<b>K-factor</b> - Aged 28 days 70°F (21°C)	ASTM C518	0.168 BTU·inch/ft <sup>2</sup> ·h·°F
<b>R-Value</b> - Aged 28 days 70°F (21°C)	ASTM C518	5.9 at 1 inch thickness
<b>Compressive Strength</b>	ASTM D1621	14 lbf/in <sup>2</sup> (96 kPa) Parallel
		15 lbf/in <sup>2</sup> (103 kPa) Perpendicular
<b>Tensile Strength</b>	ASTM D1623	42 lbf/in <sup>2</sup> (263 kPa)
<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>Cutable</b>		5-10 minutes
<b>Title 33</b>	33 CFR 183.114	Meets the requirements for flotation
<b>DIN 4102.1</b>		B2

## 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)

DIMENSIONS & YIELD<sup>1</sup> (2.00 Density)

	<b>Weight</b> (Including Packaging)	<b>Dimensions</b> (Including Packaging)	<b>Yield (Cubic Feet)</b>
<b>TF200SR</b>	41 lbs	16" x 16" x 9"	13 ft <sup>3</sup> (.37 m <sup>3</sup> )
<b>TF600SR</b>	115.7 lbs	18" x 18" x 13"	43 ft <sup>3</sup> (1.22 m <sup>3</sup> )

<sup>1</sup>Theoretical Yield is based on 2.0 pcf in-place density. Applying foam into a cavity may result in higher in-place densities due to packing effects. These higher densities may result in lower yields.

**Always read all operating, application and safety instructions before using any products.** 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 Commercial Thermal Solutions, Inc. 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.

**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. 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.

Tiger Foam low pressure one-component polyurethane foam sealants and adhesives (OCF), low pressure spray polyurethane foams (SPF), and low pressure pour-in-place polyurethane foams (PIP) are composed of a diisocyanate, hydrofluorocarbon or hydrocarbon blowing agent, and polyol. For polyurethane foam sealants/adhesives: 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. Read the SDS and instructions carefully before use ([www.tigerfoam.com](http://www.tigerfoam.com)). For spray polyurethane foams and pour-in-place polyurethane foams: wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Use only in a well-ventilated area and with certified respiratory protection or a powered air purifying respirator (PAPR). Additional information on ventilation can be found in the Product Stewardship Guide ([www.tigerfoam.com](http://www.tigerfoam.com)). Read the SDS ([www.tigerfoam.com](http://www.tigerfoam.com)) and instructions carefully before use. 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). 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. Refer to the products' SDS, ICP Adhesives & Sealants' Product Stewardship Guidelines, and operating instructions for guidance on the safe and proper application of the product ([www.tigerfoam.com](http://www.tigerfoam.com)). 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.

**WARNINGS:** Follow safety precautions and wear protective equipment as recommended. Prolonged inhalation exposure may cause respiratory irritation/sensitization and/or reduce pulmonary function in susceptible individuals. Onset may be delayed. Pre-existing respiratory conditions may be aggravated. We recommend that the product is used in a well-ventilated area and with certified respiratory protection. NIOSH approved positive pressure supplied air respirator is recommended if exposure guidelines may be exceeded. Contents may be very sticky and irritating to skin and eyes, therefore wear safety glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure when operating. If liquid chemical comes in contact with skin, first wipe thoroughly with dry cloth, then rinse affected area with water. Wash with soap and water afterwards, and apply hand lotion if desired. If liquid comes in contact with eyes, immediately flush with large volume of clean water for at least 15 minutes and get medical help at once. If liquid is swallowed, get immediate medical attention. Do not induce vomiting. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. Products manufactured or produced from these chemicals are organic and, therefore, combustible. Each user of any product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage. **KEEP OUT OF REACH OF CHILDREN.**

**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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