

## TECHNICAL DATA SHEET

### OC-450 / OC-1350 LOW DENSITY LOW PRESSURE SPRAY FOAM

#### DESCRIPTION

Low pressure, low density, two-component spray polyurethane foam. OC-450 and OC-1350 utilize a non-flammable blowing agent and has been specifically formulated for flame retardancy and conforms to the requirements of ASTM E84 as a "Class 1" system (flame spread of 50 or less, smoke development of 450 or less). The foam helps to lower heating and cooling costs by drastically reducing energy consumption.

#### APPLICATIONS

Designed to fill and seal various size voids, deaden sound or reduce vibration.

#### RECOMMENDED PRODUCT APPLICATIONS

- Walls
- Unvented Attics
- Ceilings
- Floors
- Vented Attics
- Piping
- Unvented Crawl Spaces
- Vented Crawl Spaces
- Foundations
- Concrete Slabs
- Ducts
- Tanks
- Cold Storage
- Freezers
- Coolers

#### COMPATIBILITY

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.

#### IMPORTANT NOTE

**FOR PROFESSIONAL USE ONLY.** Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.

#### RECOMMENDED PROCESSING PARAMETERS

Chemical Storage Temperature	Optimum 75-85°F (24-29°C) but not <60°F (16°C) or >90°F (32°C)
Outside Application Temperature	40-100°F (4-38°C)
Process Core Chemical Temperature	75-85°F (24-29°C)
Surface Temperature (Substrate)	40-100°F (4-38°C)
Cured Foam	-200°F to +240°F (-129°C to +116°C)
Shelf-Life	12 months

#### PREPARATION FOR USE

Substrate must be clean, dry, firm, free of loose particles, and free of dust, grease and mold release agents. Protect surfaces not to be foamed. Read SDS, Operating Instructions and Product Stewardship Guidelines. For additional information go to [www.icynene-lapolla.com](http://www.icynene-lapolla.com)

#### DISPOSAL

Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in accordance with all applicable federal, state, provincial and local regulations.


#### USE

Warm/Cool chemicals to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.

#### PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD/ REQUIREMENTS	RESULTS
Density (Free Rise) Density (In-Place)	ASTM D1622	.75 lbs/ft³ (12 kg/m³) 1.12 lbs/ft³ (18 kg/m³)
K-Factor - Aged 90 days 140°F (60°C)	ASTM C518	0.233 BTU·inch/ft²·h·°F
R-Value - Aged 90 days 140°F (60°C)	ASTM C518	4.3 at 1 inch thickness
Air Barrier Properties (Estimated) - @1.57 psf (75 Pa) - @6.24 psf (300 Pa)	ASTM E283	<0.0025 cfm/ft² (<0.0125 L/s/m²) <0.01 cfm/ft² (<0.05 L/s/m²)
Compressive Strength	ASTM D1621	<5 lbf/in² (35 kPa)
Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free / Expansion Time	Tack-Free Expansion Time	30-45 seconds
Closed Cell Content	ASTM D2856	5%
Cuttable		3-5 minutes
Fungi Resistance	ASTM G21	No Growth
Sound Transmission Class	ASTM E90	STC 35
Noise Reduction Coefficient	ASTM C423	NRC .70
Fire Rating - Tested at 4" Thickness	ASTM E84	Flame Spread Index 50 Smoke Developed 400

#### CREDENTIALS/CERTIFICATIONS

ASTM E84	Conforms to the requirements of ASTM E84 and is classified as a class 2 (B) material. Tested at 4 inch thickness	
STC 35	The STC rating indicates how well a wall assembly blocks airborne sound. Our wall assembly was comprised of 5/8" OSB (exterior), one layer of type X gypsum wallboard (interior), 2" x 4" studs with 3 inches of Icynene-Lapolla Low Density Spray Foam	
NRC.70	The NRC is a single number index for rating how absorptive a material is. Icynene-Lapolla Low Density Spray Foam has an NRC of .70 at 3 inches in thickness. It will absorb 70% of the sound that comes into contact with it and will reflect 30% of the sound back into space.	

#### YIELD¹ (.75 Density)

	WEIGHT (Including Packaging)	BOARD FEET	CUBIC FEET
II-250 P10692	26.4 lbs	250 (23.2 m²)	20.8 ft³ (.58 m³)
II-450 P10694	41 lbs	450 (41.8 m²)	37.5 ft³ (1.06 m³)
II-1350 P10770	115.7 lbs	1350 (125.5 m²)	112.5 ft³ (3.18 m³)

¹ Yield is based on free-rise density. We state our core density/free-rise density when describing the foam. Applying foam into a cavity may result in higher in-place densities due to packing effects. These higher densities may result in lower yields.

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#### PPE

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 SDS, Operating Instructions, and Product Stewardship Guidelines. For additional information go to [www.icynene-lapolla.com](http://www.icynene-lapolla.com)



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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 Icynene-Lapolla of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call Icynene-Lapolla 1-877.636.2648 or 281.219.4100.

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.

Icynene-Lapolla 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.icynene-lapolla.com](http://www.icynene-lapolla.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.icynene-lapolla.com](http://www.icynene-lapolla.com)). Read the SDS ([www.icynene-lapolla.com](http://www.icynene-lapolla.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, Icynene-Lapolla Guidelines, and operating instructions for guidance on the safe and proper application of the product ([www.icynene-lapolla.com](http://www.icynene-lapolla.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:** Icynene-Lapolla warrants only that the product shall meet Icynene-Lapolla specifications for the product when shipped by Icynene-Lapolla. 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 Icynene-Lapolla 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.