

# B-5023HFO

## TECHNICAL DATA SHEET

B5023HFO / A-2732 is a two-component spray applied insulation polyurethane foam system, medium density **specifically formulated with hydrofluoro-olefin (HFO)**, the latest advancement in foam blowing agent technology. The **HFO blowing agent** used in B5023-HFO resin has a global warming potential (GWP) of 1, 99.9% lower than HFC blowing agents. **HFO blowing agent** is non-ozone-depleting and non-flammable.

B-5023HFO / A-2732 is a High Service Temperature polyurethane spray foam system designed to withstand service temperature as high as 300°F (149°C). This system is formulated with renewable and recycled products.

### **Low Global Warming Potential (GWP) Blowing Agent:**

- With its outstanding thermal performance and a GWP of 1, HFO blowing agent is a balanced solution to today's environmental and performance challenges in insulated foam applications



### **Superior Foam Performance:**

- Improved thermal performance
- Proven nonflammability
- “Drop-in” replacement for processing equipment
- Straightforward and cost-effective transitions

COMPONENT PROPERTIES		
Properties	ISOCYANATE A-2732	RESIN B-5023
Appearance	Brown liquid	Amber liquid
Viscosity @ 25°C	150 – 250 cps	300 - 400 cps
Specific Gravity @ 25°C	1.24	1.17
Shelf Life	12 months	6 months
Mixing Ratio (volume)	100	100

REACTIVITY PROFILE	
Cream Time (seconds)	0 - 1
Gel Time (seconds)	3 - 4
Tack Free Time (seconds)	5 - 6
Free Rise Density (lb/ft <sup>3</sup> )	2.1 – 2.4

Laboratory results based on machine mixing (Graco E-30) at 110°F/1000psi. Properties shown below are to be used as a guide only and not intended for specification properties.

### **Resin B-5023HFO**

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TEMPERATURE AND PARAMETERS		
<b>Installation Temperature (Ambient and Substrate)</b>	<b>Component Temperature (A&amp;B)</b>	<b>Minimum Spraying Pressure</b>
0°C to 35°C (32°F to 95°F)	35 – 45°C (95-113°F)	5516 kPa (800 psi)

TYPICAL PHYSICAL PROPERTIES		
<b>Physical Propertie</b>	<b>ASTM Method</b>	<b>Value</b>
Density (in place) *	D 1622	2.30 lb/pi <sup>3</sup>
Compressive Strength	D 1621	32.2 psi
Dimensional Stability	D2126 (7days, -25°C, ambient R.H)	0.07 %
	D2126 (7days, +80°C, ambient R.H)	-0.93 %
	D2126 (28 days +70°C,97% +-3% R.H)	2.73 %
Water Absorption (volume)	ASTM D2842	<1.0%
Initial Thermal Resistance	ASTM C518 (50mm)	7.23 ft <sup>2</sup> .h. <sup>0</sup> F/btu.in (2.50 m <sup>2</sup> .°C/W)

#### ADDITIONAL INFORMATION

The service temperature of this foam is between -60°C and +149°C (-76°F and +300°F). When spraying this foam system, the sprayer should not exceed 51 mm (2 inches) per pass. Spraying thicker could result in a sudden combustion of the foam which can happen hours after the installation of the foam. As with any plastic insulation, this foam is combustible and must be protected by an approved thermal barrier (Building code of Canada or local standards).

PACKAGING
Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Genyk B-5023 is supplied in 225 kg drums and 1,125kg totes.

STORAGE CONDITIONS AND HANDLING
All materials should be stored in their original containers and away from heat and moisture, especially after the seals have been broken and the containers have been opened. Shelf life is 6 months for the resin and 12 months for the isocyanate when stored indoors at a temperature between 60°F (15°C) and 77°F (25°C) for the resin and 60°F (15°C) and 100°F (38°C) for the isocyanate. Storage below 60°F (15°C) may result in compound stratification of the B and/or crystalline formation in the A component. Temperatures above the maximum storage temperatures may decrease the shelf life. Containers should be opened carefully to allow any pressure build-up to be vented safely. Extensive venting of the B component may result in loss of blowing agent, higher-density foam and reduced yield. Temperatures below 60°F (15°C) will increased the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

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### HEALTH AND PERSONNAL PROTECTION

Before handling these chemicals, please consult the Material Safety Data Sheets for the two components. Material Safety Data sheets on product components are available from Genyk Inc.

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