

B-5021 HFO (Ditch Foam System)



TECHNICAL DATA SHEET

B-5021 HFO / A-2732 is a ditch break polyurethane spray foam system specially formulated without any ozone depletion substances and has a Global Warming Potential (GWP) of 1, which is 99.9% lower than historical blowing agent. This system is designed to be built-up in thickness without scorching or foam splitting. This system is formulated with renewable and recycled products.

COMPONENT PROPERTIES		
Properties	ISOCYANATE A-2732	RESIN B-5021 HFO
Appearance	Brown liquid	Amber liquid
Viscosity @ 25°C	150 – 250 cps	200 - 300cps
Specific Gravity @ 25°C	1.24	1.17 – 1.21
Shelf Life	12 months	6 months
Mixing Ratio (volume)	100	100
Application Temperature	From – 20°C to + 30°C (Ambient Temperature)	

REACTIVITY PROFILE	
Cream Time (seconds)	0 - 1
Gel Time (seconds)	2 - 3
Tack Free Time (seconds)	4 – 5
Core Density (lb/ft ³)	2.10

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.

TYPICAL PHYSICAL PROPERTIES		
Physical Propertie	ASTM Method	Value
Core Density	D 1622	2.10 lb/pi ³ (33.6 kg/m ³)
Compressive Strength*	D 1621	31.0 psi (213.5 kpa)
Dimensional Stability	D2126 (7days, -25°C, ambient R.H)	-0.68%
	D2126 (7days, +80°C, ambient R.H)	3.47%
	D2126 (28 days +70°C,97% +-3% R.H)	7.88%
Water Absorption (volume)	ASTM D2842	<1.0%
Initial Thermal Resistance	ASTM C518 (50mm)	7.15 ft ² .h. ⁰ F/btu.in (1.26 m ² .°C/W)

Properties shown below are to be used as a guide only and not intended for specification properties.

*Tested on panel sample prepared with 2 x 2-inch thickness per pass.

ADDITIONAL INFORMATION:The service temperature of this foam is between -60°C and +85°C (-76°F and +185°F). As with any plastic insulation, this foam is combustible and must be protected.

Resin B-5021 HFO

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PACKAGING

Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Genyk B-5021 HFO 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 increase the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

HEALTH AND PERSONAL 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.

Genyk Inc believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Genyk Inc, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficiency and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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