

# HFL-971

**Hydro-Fused®/Nonasbestos Gasket Material****F729900E39M9**

## Description

HFL-971 is a high density material with a combination of fully cured nitrile butadiene binder and thermoset resin for superior mechanical strength in heavy-duty applications. It has exceptional tensile strength, crush resistance, blowout resistance, erosion resistance, and resistance to shear and friction damage in dynamic joints. It is intended for applications sealing transmission fluid, axle lube, oil, fuel, coolant, water, and steam with short duration maximum temperatures up to 350°C (650°F).

## Specification Properties

Property	Value	Method
Density, g/cc(lb/cu.ft)	1.5 (93.6) (min.)	ASTM F 1315
Compressibility, % (at 34.5MPa)	7 - 17	ASTM F 36
Recovery, %	40 (min.)	ASTM F 36
Flexibility, Mandrel Bend, 12 X Ga.	No Cracks	ASTM F 147
Tensile Strength, AMD, MPa(psi)		ASTM F 152
Less Than 0.5mm Gauge	12.40 (1800) (min.)	
0.5 to 0.8mm Gauge	24.10 (3500) (min.)	
All Other Gauges	27.50 (3985) (min.)	
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Thickness, %	20 (max.)	
Fluid Resistance, Fuel B		ASTM F 146
Change in Thickness, %	20 (max.)	
Change in Weight, %	20 (max.)	
Binder Type	Fully Cured Nitrile Butadiene	

## Remarks and Related Documents

Specification values determined by the test methods required for ASTM F-104, Type 7 materials, except where noted.

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For more information, please visit [www.InterfaceMaterials.com](http://www.InterfaceMaterials.com) or contact

WORLD HEADQUARTERS  
Interface Performance Materials, Inc.  
216 Wohlsen Way  
Lancaster, PA 17603  
USA  
+1.717.207.6000

TECHNICAL CENTER  
Interface Performance Materials, Inc.  
215 Wohlsen Way  
Lancaster, PA 17603  
USA  
AE@InterfaceMaterials.com  
+1.717.207.6000

NORTH AMERICA  
Interface Performance Materials, Inc.  
22260 Haggerty Road, Suite 200  
Northville, MI 48167  
USA  
+1.248.596.2800

ASIA PACIFIC  
Interface Sealing Solutions Shanghai Co., LTD  
Unit 14F, No. 728  
Yan An Road West, Changning District  
Shanghai 200050  
China  
+8621.5238.5650

INDIA  
Interface Performance Materials India LLP  
Mandkola Road, Vill. Atta, Sohna,  
Distt: Mewat, Nuh-122103 (Haryana)  
+91.0124.8930992166

EUROPE & SOUTH AMERICA  
Interface Sealing Solutions Europe  
Lili Pean, Le Bourg  
Bonloc 64240  
France  
+33.5.5929.1220

GERMANY  
Interface Performance Materials  
Altenkirchen GmbH  
P.O. Box 12 63  
Koblenzer Strasse  
Altenkirchen D-57610  
Germany  
+49.2681.80020