

# F-15

## Silicone Foam Rubber

**Saint-Gobain® Norseal®** F-15 is a medium-low density silicone designed to deliver environmentally stable, flame-retardant performance for gasketing, insulation and dampening applications.

**Norseal** F-15 offers excellent compression set resistance and is often the product of choice in aircraft, aerospace, mass transit, military and electronic applications. F-15 offers excellent resistance to environmental conditions, making it an excellent choice for both indoor and outdoor sealing and gasketing applications.

**Norseal** F-15 is specially designed to provide the following features:

- Non-toxic, low smoke generation and low flame spread
- Smooth surface on both sides for excellent sealing against air, dust, light and moisture
- Excellent compression set resistance
- Excellent resistance to ultraviolet light, ozone and extreme temperature ranges
- Non-corrosive for use with metals and in hostile environments
- Available as a pressure-sensitive adhesive tape under the **Norseal** Silicone SNS 515GF product line

## Available Sizes

Standard thickness: .063, .094, .125, and .188 in. (1.6, 2.4, 3.2, and 4.8 mm)

Master roll size: 36 in. (914 mm) width. Length varies with thickness.

Special thickness and roll sizes also available.



EXPERTS IN SILICONE GASKET SOLUTIONS

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215-335-3005



## APPLICATIONS

- Rail and transit
- Aerospace
- LED lighting
- Electronics

## Norseal F-15 — Properties

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

Property	Unit of Measure	Value	Test Method
<b>Physical</b>			
Colors	-	Grey	-
Tensile Strength	psi (kPa)	30 (207)	ASTM D412
Elongation at Break	%	50	ASTM D412
Density	lb.ft <sup>3</sup> (kg/m <sup>3</sup> )	15 (240)	ASTM D3574
Compression Deflection	psi (kPa)	6 (41)	ASTM D1056
Compression Set (50% for 22 hrs. at 212°F)	%	<8	ASTM D1056 "D"
Surface Description	-	Smooth both sides	-
<b>Flammability</b>			
Flame Resistance (UL)	-	In progress (Internal test = pass)	UL 94 V-0
Flame Resistance (FAR)	-	Not tested	FAR 25.853 (12s & 60s)
Flame Spread Index	L <sub>1</sub>	Not tested	ASTM E162
Smoke Density	D <sub>2</sub>	Not tested	ASTM E662
Toxic Gas Emissions Rating	-	Not tested	SMP-800C
Flame Propagation	-	Not tested	ASTM C1166
<b>Environmental</b>			
Stain Resistance	-	Not tested	ASTM D925 - 06e2, Method A
Ozone Effect Rating	-	Not tested	ASTM D1171-99 (2007), Method A
UV Resistance	Visual	Not tested	SAE J1960
Water Absorption	%	<5	ASTM D471
Temperature Range	F° (°C)	-60 to + 400 (-51 to +204)	-
FDA Extractables	-	In progress	21 CFR 177.2600 (food contact)
Gasket and Seals for Electronic Enclosures	-	In progress	UL 50E
<b>Electrical and Thermal</b>			
Dielectric Strength	volts/mil (VPM)	Not tested	ASTM D149
Dielectric Constant	-	Not tested	ASTM 150
Dissipative Factor	-	Not tested	ASTM 150
Dry Arc Resistance	Seconds	Not tested	ASTM D495
Volume Resistivity	ohms-cm	Not tested	ASTM 257
Thermal Conductivity	W/m°K	Not tested	ASTM C518
Thermal Insulation (R-value)	ft. <sup>2</sup> • h • F°/Btu • in	Not tested	ASTM C518
Low Temperature Embrittlement	F° (°C)	Pass	Internal

### Important Instructions

Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.

### Shelf Life

10 years after the date of sale when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity and away from direct sources of heat and direct sunlight. (See the applicable data sheets for pressure sensitive adhesive options).

**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

**WARRANTY:** For a period of 6 months, Saint-Gobain warrants this product(s) to be free from defects in manufacturing. The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. SAINT-GOBAIN DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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