



Tape Solutions for Walk-in Refrigeration Coolers

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Saint-Gobain has developed a range of **Norseal**[®] gasketing materials designed specifically to meet the needs of the walk-in refrigeration wall panel market. Our NSF (National Sanitation Foundation) certified extrusion materials act as thermal barriers, are suitable for use in Food Zone areas and offer a wide range of benefits including air, water and dust sealing. In addition, **Saint-Gobain** has developed a new series of Fire Retardant Gaskets to assist in meeting industry fire codes. This unique foam tape provides traditional sealing capabilities while creating a flame and smoke barrier.

NSF Listed Gasketing Profiles

NSF Approved **Norseal** PVC Extruded Foam Profiles are designed to meet your toughest challenges, while enhancing user productivity. The foam core provides excellent thermal insulation for reducing energy loss, while the easy-to-clean continuous skin creates a barrier to prevent light, dirt and moisture from penetrating. The closed cell core and skin together create a compressible foam profile that overcomes variation in joint surfaces, maintaining the long term integrity of the seal.

The long spool lengths mean less downtime and more efficient application for operators. The quick stick pressure sensitive adhesive (PSA) allows for ease in application and eliminates any need for mechanical staples to hold the profile into place. The aggressive PSA bonds to a variety of surfaces, including stainless steel, aluminum, painted enamel, galvanized & smooth/embossed metals. The PSA also allows the profiles to be factory applied and ensures they stay in place until field assembly.










Norseal NSF foam extrusions are available in several common sizes, colors and foam densities. **Saint-Gobain** maintains an NSF/ANSI 51 listing for each foam formulation, allowing the product to be customized for additional shapes, densities and adhesives for your unique cooler design. Our Engineering Application Department is available to assist in developing these tailored solutions.

Fire Retardant Gasketing Profiles


Our **Norseal** FS1000 Series is a proprietary, high-performance foam tape designed with a unique combination of sealing properties. Resilient and soft, FS1000 in its natural state can easily be compressed in long length wall systems and comes back to its original thickness after pressure is applied.

FS1000 is expandable and fire resistant, blocking smoke, air and water. When the tape is exposed to temperatures of 392°F (200°C), the foam expands to create a flame and smoke barrier. With its UL94 VO rating, FS1000 allows manufacturers to meet industry flame ratings and achieve Factory Mutual (FM4480) ratings. When compressed by 30%, FS1000 closed cell foam is watertight for 2" water column and airtight up to a pressure of 1000 Pa. A pressure sensitive adhesive on one side allows the tape to be easily secured to the wall panel surface (stainless steel, aluminum galvanized) or wood core during final assembly. The exposed foam surface is dry and non-tacky. This allows the wall system to be disassembled, providing the end user flexibility if the unit needs to be relocated. FS1000 is produced in various thicknesses to accommodate different wall system designs.

Material Selection Guide – NSF Gasketing Profiles

Material	Product Code	Shape	Color	NSF/ANSI 51 Trade Designation**	Format	Thickness* in (mm)	Width* in (mm)	Length ft (m)	Density lb/ft ³ (kg/m ³)	Product Features
PVC	P3897		Gray	F2856	Spools	0.125" (3.2)	0.375" (9.5)	2500 (762)	7.5 (120)	Thin & narrow profile for sealing small gaps
	P3898		White	F2838						
	P3918		Black	F2827						
PVC	P3302		White	F2838	Spools	0.188" (4.8)	0.5" (12.7)	1200 (365)	8 (128)	For sealing medium gaps
PVC	P3899		Gray	F2856	Spools	0.188" (4.8)	0.5" (12.7)	1200 (365)	9.5 (152)	"B" Shaped profile to accommodate sealing of medium size gaps, while minimizing force to compress and displacement of gasket
	P3900		White	F2838						
	P3916		Black	F2827						
	P3917		Tan	G4463						
PVC	P3847		Gray	F2827	Spools	0.25" (6.3)	0.5" (12.7)	2000 (610)	9.5 (152)	"B" Shaped profile to accommodate sealing of large gaps while preventing displacement of gasket

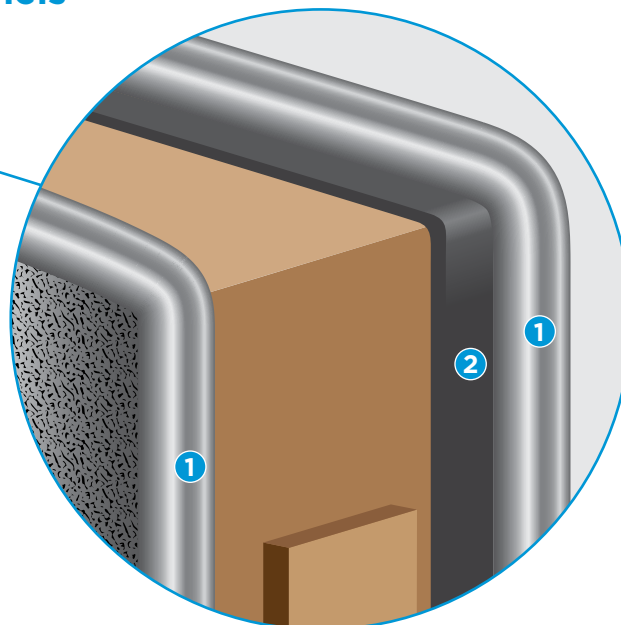
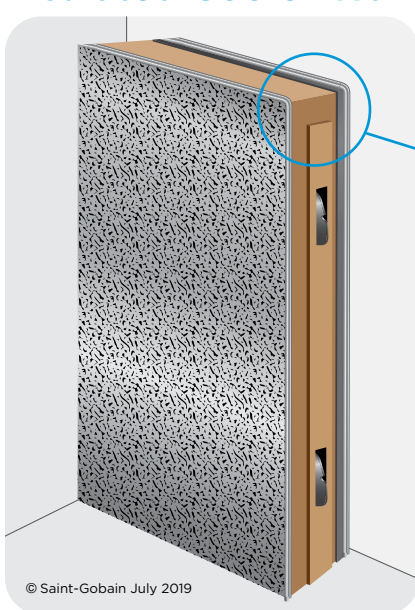
Material Selection Guide – Fire Retardant Gasketing

Material	Product Code	Shape	Color	Flame Performance	Format	Thickness in (mm)	Width/Shape in (mm)	Length ft (m)	Density lb/ft ³ (kg/m ³)	Product Features
Polyurethane	FS1000		Gray	UL94-V0	Rolls/ die cuts	0.188", 0.25", 0.37" (4.5, 6, 9)	0.188" up to 56" (4.5mm to 1.48M)	65' to 26' (20 to 8) Gauge dependent	15 (240)	Soft, conformable, fire resistant, and intumescent foam gasket

* Highlighted above are common profiles. Customized shapes & densities can be tailored to your application needs.

** National Sanitation Foundation approved to ANSI 51 code (food equipment material), food zone non-contact, <http://www.nsf.org>.

Insulated Cooler Wall Panels



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Your Partner in Custom Tape Solutions

A custom tape solution can pay for itself many times over thanks to the process and product improvements it can provide. Tape development engineers will work with partners to design an economical but highly effective tape product.

Even with endless permutations of industrial tapes available there is only one company that can deliver a custom-made tape with optimal adhesive, the perfect backing materials, seamless process integration and superb performance.

To learn more about how **Saint-Gobain** can help solve tape and materials engineering challenges, call us or visit us online.

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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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