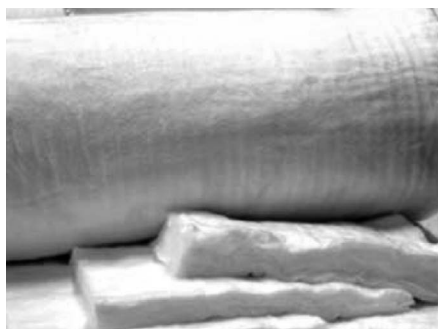




Owens Corning® Range Insulation (TRS & GEM®) with PureSolution® Technology

Product Data Sheet



Description

Owens Corning® Range Insulation with PureSolution® Technology is designed for high temperature commercial and industrial applications up to 1,000°F. Compared to current GEM® product offerings, the thinner product spectrum along with the high temperature, flexibility and conformability attributes make it excellent insulation for appliance range insulation. The PureSolution® Technology white insulation provides excellent design flexibility along with outstanding dimensional stability. Applications benefit from a system approach, and soft user-friendly texture provides ease of handling and installation. Owens Corning® Range Insulations with PureSolution® Technology offers excellent thermal performance with virtually no smoke and odor at elevated temperatures.

Key Features

- User-friendly fibers result in less dust levels and less irritation for installers in comparison to binder based products
- Up to 1,000°F operating temperatures

Thermal Conductivity

GEM® Insulation with PureSolution® Technology						
Thickness ¹ [Inches]	Nominal K value [BTU-in/(hr • ft ² °F)]			Nominal K. W/mK		
	75°F	300°F	500°F	23°C	149°C	260°C
0.375	0.22	0.30	0.42	0.032	0.044	0.061
0.500	0.22	0.30	0.42	0.032	0.044	0.061
0.625	0.22	0.29	0.42	0.032	0.042	0.061
0.750	0.22	0.29	0.42	0.032	0.042	0.061
1.000	0.22	0.29	0.42	0.032	0.042	0.061

1. Thickness value is nominal. Product control is on thermal conductivity.

ThermoRange® System (TRS) with PureSolution® Technology						
Product Family ¹	Nominal K value [BTU-in/(hr • ft ² °F)]			Nominal K. W/mK		
	75°F	300°F	500°F	23°C	149°C	260°C
TRS-40	0.22	0.35	0.52	0.032	0.050	0.075
TRS-50	0.21	0.31	0.44	0.031	0.045	0.063
TRS-60	0.21	0.30	0.42	0.031	0.044	0.060

1. Thickness value for the product family is nominal. Product control is on thermal conductivity.

Products come in thicknesses between ¾" - 1¼" thicknesses in ¼" increments.

Sound Absorption Coefficient, ASTM C423 - Type A mounting²

PureSolution® Technology								
Thickness [Inches]	HZ: 125	250	500	1000	2000	4000	NRC	SAA
0.750	0.05	0.13	0.52	0.97	1.03	1.04	0.65	0.66

2. Nominal samples were measured in accordance with ASTM C423. These measured absorption coefficients are representative of the product with mean specification properties. While these values are an accurate representation of our product, they are for design approximations only. Production, testing, and application variabilities will alter results. Specific designs should be evaluated in end-use configurations.

- Broader range of product thickness capabilities below 1" compared to current TRS and GEM® offerings
- Improved K replaces thicker insulation materials with thinner insulation at equivalent R-value
- Thinner insulation opens options for expanded cooking capacity
- No binder
- Enhances baking evenness
- Certified high recycled content - 53%
- Manufactured without formaldehyde
- Helps absorb equipment noise, providing acoustic benefits
- Design flexibility with system approach

- Improved small area weight distribution

Product Applications

Owens Corning® Range Insulation with PureSolution® Technology is a unique and proprietary blend of fiber sciences and manufacturing technology resulting in an insulation product with excellent performance for a broad spectrum of applications such as:

- Self-cleaning and standard ranges, countertop ranges, and built in wall ovens
- Oven panels and broilers
- Commercial ovens and ranges
- Fireplaces



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Availability

Owens Corning® GEM® Insulation with PureSolution® Technology offers a broad range of thickness options below 1". Products are available in numerous thicknesses; minimum 3/8" up to 1" in 1/8" increments.

Owens Corning® TRS Insulation with PureSolution® Technology is available in both batt and roll form in 1/4" increments. Thickness ranges from 3/4" to 1 1/4".

Standards, Codes Compliance

- Owens Corning® Range Insulation with PureSolution® Technology is non-corrosive to steel (per ASTM C665)
- Owens Corning® Range Insulation with PureSolution® Technology has flame spread/smoke developed indices less than 25/50 per ASTM E84/UL 723 (Unfaced Owens Corning® Range Insulation with PureSolution® Technology is UL listed)

- Owens Corning® Range Insulation with PureSolution® Technology has an operating temperature up to 1,000°F (538°C) for unfaced materials (per ASTM C411).

Certifications and Sustainable Features of Owens Corning® Range Insulation with PureSolution® Technology

- Certified by SCS Global Services to contain a minimum of 53% recycled glass content, 31% pre-consumer and 22% post-consumer.
- Certified to meet indoor air quality standards under the GREENGUARD Indoor Air Quality Certification Program, and is GREENGUARD Gold certified.

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services.

Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at: <http://sustainability.owenscorning.com>.

Notes: For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>

Disclaimer of Liability

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SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit www.SCSglobalservices.com.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.



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