



# RANGE INSULATION (TRS & GEM®)

## WITH PURE SOLUTION® TECHNOLOGY



### Key Features

- Binder free fibers result in less itch and irritation for installers over blankets with binder
- Broader range of product thickness capabilities below 1"
- Improved K replaces thicker insulation materials with thinner insulation at equivalent R-value
- Thinner insulation opens options for expanded cooking capacity
- 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

### Standards, Codes Compliance

- Owens Corning® Range Insulation with PureSolution® Technology is non-corrosive to steel (per ASTM C1617)
- 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)

Owens Corning® Range Insulation with Pure Solution Technology products are designed for high temperature commercial and industrial applications up to 1000°F.

The soft white flexible material comes in multiple thicknesses and densities providing ease of handling and installation.

Owens Corning® Range Insulation with Pure Solution Technology meets thermal performance with virtually no smoke and odor at elevated temperatures making is an excellent choice for appliance range applications.

### 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-clean and standard ranges, countertop ranges, and built in wall ovens
- Oven panels and broilers
- Commercial ovens and ranges
- Fireplaces

## Thermal Conductivity

### GEM® INSULATION WITH PURESELECTION® TECHNOLOGY

THICKNESS <sup>1</sup> (INCHES)	NOMINAL K VALUE [BTU-IN/(HR • FT <sup>2</sup> °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 PURESELECTION® TECHNOLOGY

PRODUCT FAMILY <sup>1</sup>	NOMINAL K VALUE [BTU-IN/(HR • FT <sup>2</sup> °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  $\frac{3}{4}$ " -  $1\frac{1}{4}$ " thicknesses in  $\frac{1}{8}$ " increments.

### 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.

## 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  $\frac{1}{4}$ " increments. Thickness ranges from  $\frac{3}{4}$ " to  $1\frac{1}{4}$ ".

## Certificates 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 highquality 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>.

## Disclaimer of Liability

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For more information, visit [ul.com/gg](http://ul.com/gg).

## Notes

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

## OWENS CORNING INSULATING SYSTEMS, LLC

ONE OWENS CORNING PARKWAY  
TOLEDO, OH 43659 USA

1-800-GET-PINK®

[www.owenscorning.com](http://www.owenscorning.com)