



# RA SERIES ECOTOUCH® INSULATION



## Description

The Owens Corning™ RA Series EcoTouch® Insulation products are lightweight blankets. These products are designed to provide excellent dimensional stability, excellent thermal and acoustical performance, and easy handling and installation.

## Features

- **Design Flexibility** – The RA product line offers a wide range of thermal, acoustical, and mechanical performance levels and densities to provide value added performance in many varied applications. These products are available in both roll and batt form.
- **Dimensional Stability** – RA products have excellent resilience and compressive strengths.
- **Non-corrosive** – RA is non-corrosive, and will not accelerate corrosion on copper, aluminum, or steel.
- **Excellent Acoustical Properties** – The RA series of products offer documented and proven acoustical performance for a wide range of applications.

## Product Applications

RA insulation products are among the most versatile products offered by Owens Corning, used in applications such as:

- Residential and commercial refrigerators
- Residential and commercial freezers
- Walk-in and reach-in coolers
- Acoustical treatment for refrigerated appliances
- Water coolers and dispensers
- Vending machines
- Display cases
- Insulated acoustic panels
- Insulated shipping containers
- Low temperature specialty equipment
- Hot water heaters
- Foam stop applications
- Compressor covers
- Transportation insulation – buses and trucks

## Physical Properties

PROPERTY	TEST METHOD	VALUE
Surface Burning Characteristics <sup>1</sup>	ASTM E84 or UL723	Meeting 25/50
Operating Temperature	ASTM C411	Up to 450°F (176°C)
Corrosion	ASTM C665	Meets standard
Mold Growth	ASTM C1338	Meets standard
Thermal Conductivity	ASTM C518	See table
Sound Absorption	ASTM C423	See table

1. The surface burning characteristics of these products have been determined in accordance with UL723, ASTM E84, or CAN/ULC-S102. This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

## Sound Absorption Coefficient, ASTM C423—Type “A” Mounting<sup>2</sup>

PRODUCT	THICKNESS (INCHES)	OCTAVE BAND CENTER FREQUENCIES, Hz.							
		125	250	500	1000	2000	4000	NRC	SAA
RA-26	1.0	0.11	0.30	0.59	0.77	0.85	0.86	0.65	0.63
RA-26	2.0	0.26	0.77	1.09	1.06	0.96	1.00	0.95	0.97
RA-25	1.0	0.12	0.36	0.75	0.91	0.97	0.91	0.75	0.75
RA-24	1.0	0.11	0.38	0.71	0.90	0.95	0.91	0.75	0.74
RA-24	2.0	0.15	0.77	1.11	1.08	1.00	1.03	1.00	0.99
RA-23	1.0	0.11	0.38	0.80	0.95	0.99	0.95	0.80	0.79
RA-23	2.0	0.13	0.77	1.12	1.09	1.04	1.04	1.00	1.00
RA-22	2.0	0.20	0.87	1.19	1.11	1.06	1.05	1.05	1.04

2. Nominal samples were measured in accordance with ASTM C423. These measured absorption coefficients were adjusted to values 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.

## Standards, Codes Compliance

- RA Series EcoTouch® insulation is non-corrosive to steel, copper or aluminum (per ASTM C665)
- RA Series EcoTouch® insulation products have a flame spread rating of 25 or less and a smoke developed rating of 50 or less per ASTM E84, UL 723 and CAN/ULC-S-102 (Products are UL listed)
- RA Series EcoTouch® insulation has an operating temperature up to 450°F (per ASTM C411)
- For additional information, refer to Material Safety Data Sheet (MSDS) found on the MSDS vault via [www.owenscorning.com](http://www.owenscorning.com).

## Thermal Conductivity – “k”, ASTM C177

TYPE	NOMINAL “K”		DENSITY <sup>3</sup>	
	BTU • IN/HR • FT <sup>2</sup> • °F 2 75° (23°C) MEAN	W/MK	(PCF)	(KG/M <sup>3</sup> )
RA-26	0.260	0.037	0.95	15.2
RA-25	0.250	0.036	1.08	17.3
RA-24	0.240	0.035	1.34	21.5
RA-23	0.231	0.033	1.66	26.6
RA-22	0.223	0.032	2.27	36.4

3. Density value is nominal. Product control is on thermal conductivity.

## Availability

RA Insulation is available in both batt and roll form and 1/4” increments in the following thicknesses.

PRODUCT	THICKNESS	
	ROLLS	BATTS
RA-26	3/4”–5”	Not Available
RA-25	3/4”–5”	Not Available
RA-24	3/4”–4”	3/4”–4 1/2”
RA-23	3/4”–3”	3/4”–3 1/2”
RA-22	3/4”–1 1/2”	3/4”–2 1/2”

## Notes

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

## 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>.

## Certificates and Sustainable Features

- 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 stringent GREENGUARD Indoor Air Quality Certification Program, and the GREENGUARD Gold Certification.



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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](http://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](http://ul.com/gg).