



THERMAFIBER® PRO SECTION WR MINERAL WOOL PIPE INSULATION

Thermafiber® Pro Section WR, made with Paroc® technology, is a water-repellent mineral wool pipe insulation engineered to meet the toughest industrial specifications and conditions. It is capable of withstanding high temperatures, conserving energy, and reducing noise. Thermafiber® Pro Section WR is designed for use on high-temperature pipework in process industries and fire-resistant applications.

Features

- Used for process piping
- Available in sizes up to 30 inches ID with thicknesses up to 4 inches
- 4-foot section length for improved productivity on long runs and fewer gaps for water intrusion
- Market-leading water repellency up to 572°F (300°C)
- Easy to fabricate and install
- Superior durability and workability
- ISO 15665 compliant acoustical systems available

Standards, Code Compliance

- ASTM C547, Mineral Fiber Pipe Insulation, Types I, II, and IV, Grade A

Thermal Conductivity

TESTED TO ASTM C335

MEAN TEMPERATURE °F	100	200	300	400	500	600	700
k (Btu • in/hr • ft² • °F)	0.24	0.28	0.33	0.39	0.45	0.52	0.59
MEAN TEMPERATURE °C	38	93	149	204	260	316	371
λ (W/m • °C)	0.034	0.041	0.048	0.056	0.065	0.074	0.085

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density	ASTM C303	8.0 pcf
Maximum Use Temperature	ASTM C411 & ASTM C447	1,200°F (649°C)
Linear Shrinkage	ASTM C356	<1.3% at 12,00°F (649°C)
Shot Content	ASTM C1335	<14%
Water Vapor Sorption	ASTM C1104	<1.0% by weight
Water Absorption	EN 13472	≤0.02 lb/ft² (≤0.1 kg/m²) (After 24 hrs. pre-heating at 572°F (300°C))
CORROSION RESISTANCE	TEST METHOD	VALUE
Corrosion to Copper, Aluminum, and Steel	ASTM C665	Pass
Corrosion to Steel	ASTM C1617	Pass
Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel ¹	ASTM C795 and ASTM C692	Pass
Chemical Analysis for Cl-, F-, Na+, SiO ₃ ¹	ASTM C795 & ASTM C871	Results fall within acceptability limits
Nonmetallic Thermal Insulation ¹	NRC 1.36	Complies
Trace quantity of water-leachable chloride ions	EN 13468	≤10 ppm
FIRE	TEST METHOD	VALUE
Noncombustibility	ASTM E136 and CAN/ULC S114	Pass: Noncombustible as defined per NFPA 220
Surface Burning Characteristics ²	UL 723, ASTM E84, and CAN/ULC S102	Flame Spread 0 Smoke Developed 10
Combustibility/Reaction to Fire	ISO 1182	Noncombustible

1 Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance. Certification needs to be specified at time of order.

2 The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E84, and CAN/ULC-S102. Values are reported to the nearest 5 rating.

NOTE: The listed product properties reflect only to ASTM standards. For an extended list of approvals and product certifications (including noise reduction data), please contact GETTECH@owenscorning.com.

Availability

Our Industrial Mineral Wool Pipe Insulation portfolio is available in thicknesses up to 4 inches with inside diameters of up to 30 inches. Contact your local Owens Corning area sales manager for product availability.

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 www.owenscorning.com.

Disclaimer of Liability

Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber, Inc. liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

Notes

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

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Thermafiber® Pro Section WR is equivalent to PAROC® Pro Section WR.