



MorganAM&T™

Rigid Board

Morgan AM&T's line of premium, rayon-based rigid insulation products are designed for use in inert or vacuum environments up to 3000° C. We select raw material carefully and use rigorous process controls to ensure our customers get a consistent product with excellent thermal properties, high machinability and low dusting.

Our Rigid Board product can be precision machined per customer drawings to complex shapes, helping speed furnace construction. We stock board up to 8" thick, allowing us to machine complex three-dimensional forms for special applications.

For the most demanding applications, all rigid insulation products can be purified to less than 20 ppm total ash content. Graphite foil or graphite paint facings can be applied to exposed surfaces to further reduce dusting and out-gassing, or to serve as a heat-reflective surface.



Available Sizes (in)

Blocks	60 x 30 x 8 52 x 24 x 8
Boards	Per customer specs
Custom Shapes/Forms	Per customer specs





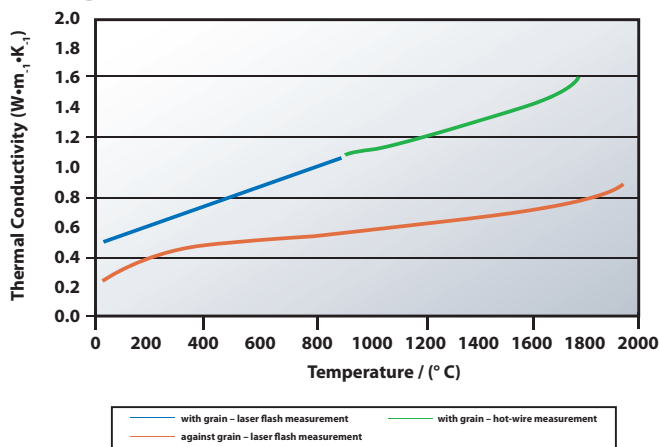
Morgan Rigid Board (MRB) Typical Properties

	Units	Direction	Typical Value
Apparent Density	g/cc		0.17
Thermal Conductivity ¹	W/m*K	w/g	1000C: 1.10 2000C: 1.16
		a/g	1000C: 0.59 2000C: 0.89
Flexural Strength	MPa	w/g	1.0
		a/g	1.0
Compressive Strength	MPa	w/g	0.62
		a/g	0.36
Electrical Resistivity	Ω-m	w/g	10.7 x 10 ⁻⁴
		a/g	30.1 x 10 ⁻⁴
CTE (1000C)	(x10-6) /° C	w/g	2.9
		a/g	2.6
Porosity	%		83
Ash Content ²	%		< 0.1

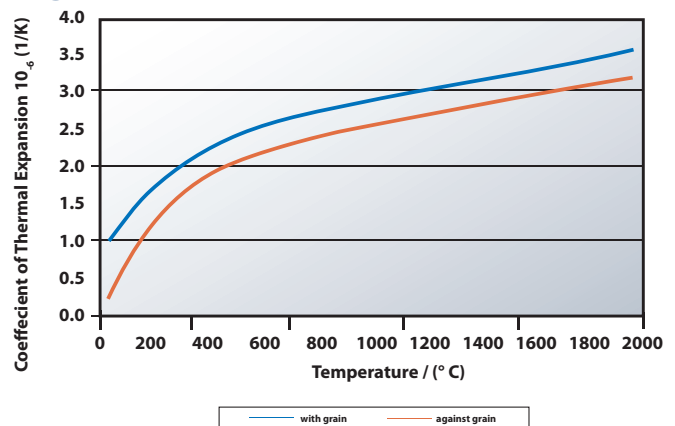
¹ Hot Plate Method, 1000°C

² optionally purified to < 20 ppm

Rigid Board Thermal Conductivity in Argon



Rigid Board Thermal Expansion



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