



INSULATION SPECIALTIES OF AMERICA INC.

ISAFORM 2300

ISAFORM is vacuum formed high temperature refractory ceramic fiberboard made from alumina-silica fibers and binders. All ISAFORM products offer high temperature stability, uniform density, low thermal conductivity, and excellent resistance to thermal shock. In order to provide handling strength for the ISAFORM during manufacturing as well as during installation, small quantities of organic and inorganic binders are added to the formulation. The organic binders will burn out between 400-500^oF during the initial heat up by the end user of the product, causing the material to become brownish in color and give off a slight odor. Upon completion of the burnout the boards will be odorless and white in color.

PHYSICAL PROPERTIES

LD

MD

Color Before Firing	Cream/Gray	Cream/Gray
Color After Firing	White	White
Temperature Maximum	2300 ^o F (1260 ^o C)	2300 ^o F (1260 ^o C)
Recommended Operating Temp.	2100 ^o F (1149 ^o C)	2100 ^o F (1149 ^o C)
Melting Point	3200 ^o F (1760 ^o C)	3200 ^o F (1760 ^o C)
Nominal Density lb/ft ³	14-16	18-22
Chemical Composition		
Al ₂ O ₃	47-52%	47-52%
SiO ₂	48-53%	48-53%
LOI (% by Weight)	4-7%	4-7%
Typical Shrinkage (%) 24 HRS @ 2000 ^o F	<5%	<5%
MOR, PSI		
Green (typical)	125	150
Fired (typical)	65	65

APPLICATIONS:

1. Back-Up for Brick Castables
2. Gaskets and Seals
3. Molten Metals Conveying
4. Low & High Temp Dryer Linings
5. Hot Gas Duct Linings
6. Combustion Chambers
7. Expansion Joint Materials

Data is based on average properties and is presented for general reference only. This information should not be used for specification purposes – no warranty is expressed or implied.