



# INSULATION SPECIALTIES OF AMERICA INC.

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## ISAFORM 2300 (L.O.)

ISAFORM is vacuum formed high temperature refractory ceramic fiber shapes 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<sup>o</sup>F 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

(L.O.)

Color Before Firing	Cream / Off-White
Color After Firing	White
Temperature Maximum	2300 <sup>o</sup> F (1260 <sup>o</sup> C)
Recommended Operating Temp.	2100 <sup>o</sup> F (1149 <sup>o</sup> C)
Melting Point	3200 <sup>o</sup> F (1760 <sup>o</sup> C)
Nominal Density lb/ft <sup>3</sup>	18-22
Chemical Composition	
Al <sub>2</sub> O <sub>3</sub>	47-52%
SiO <sub>2</sub>	48-53%
LOI (% by Weight)	1.5 - 2.5%
Typical Shrinkage (%)	
24 HRS @ 2000 <sup>o</sup> F	<4%
MOR, PSI	
Green (typical)	125
Fired (typical)	65

### APPLICATIONS:

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

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.