



# INSULATION SPECIALTIES OF AMERICA INC.

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## ISAFORM 2300 (NS)

ISAFORM NS 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 shapes during manufacturing as well as during installation, a special inorganic binder system is used in the formulation. This makes the ISAFORM NS shapes odor free during the initial firing cycle, while the products maintain greater fired strength than products made with an organic binder system.

### PHYSICAL PROPERTIES

Color Before Firing	Cream
Color After Firing	White
Temperature Maximum	2300°F (1260°C)
Continuous Use	2100°F (1149°C)
Melting Point	3200°F (1760°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 (% Organics by Weight)	<1%
Typical Shrinkage (%) 24HRS @ 2000 <sup>o</sup> F	<5%
MOR, PSI	
Green (typical)	100
Fired (typical)	65

### APPLICATIONS

1. Back-Up for Brick Castables
2. Gaskets and Seals
3. Molten Metals Conveying
4. Personnel Protection
5. Low Temperature Dryer Linings
6. Flue Linings
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.