



INSULATION SPECIALTIES OF AMERICA INC.

ISAFORM NCF 2300

ISAFORM is vacuum formed high temperature NCF (non-ceramic fiber) made from silica-magnesia fibers and binders. ISAFORM NCF products offer of high temperature stability, uniform density, low thermal conductivity, excellent resistance to thermal shock, and superior wetting resistance to molten aluminum. 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	HD
Color Before Firing	White	White
Color After Firing	White	White
Temperature Maximum	2300°F (1260°C)	2300°F (1260°C)
Continuous Use	2300°F (1260°C)	2300°F (1260°C)
Melting Point	>2730°F (1500°C)	2300°F (1260°C)
Nominal Density lb/ft ³	14-18	20-26
Post treated Density	20-23	N/A
Chemical Composition		
SiO ₂	70-80%	70-80%
MgO	18-27%	18-27%
LOI (% by Weight)	4-7%	4-7%
Typical Shrinkage (%) 24HRS @ 1800 ^o F	<5%	<5%
MOR, PSI		
Green (typical)	100	135
Fired (typical)	50	50

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.