



INSULATION SPECIALTIES OF AMERICA INC.

ISAFORM 3000

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	HD
Color Before Firing	Cream	Cream	Cream
Color After Firing	White	White	White
Temperature Maximum	3000 ^o F (1649 ^o C)	3000 ^o F (1649 ^o C)	3000 ^o F (1649 ^o C)
Recommended Operating Temp.	2700 ^o F (1482 ^o C)	2700 ^o F (1482 ^o C)	2700 ^o F (1482 ^o C)
Melting Point	3400 ^o F (1871 ^o C)	3400 ^o F (1871 ^o C)	3400 ^o F (1871 ^o C)
Nominal Density lb/ft ³	11-14	14-17	18-22
Chemical Composition			
Al ₂ O ₃	75-85%	75-85%	75-85%
SiO ₂	15-20%	15-20%	15-20%
LOI (% by Weight)	5-7%	5-7%	5-7%
Typical Shrinkage (%) 24 HRS @ 2000 ^o F	<2%	<2%	<2%
MOR, PSI			
Green (typical)	100	125	150
Fired (typical)	50	50	50

APPLICATIONS:

1. Back-Up for Brick Castables
2. Gaskets and Seals
3. Kiln Lining Insulation
4. Hot Gas Duct Linings
5. Flue & Chimney Linings
6. Heat Shields

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.