Product Information Sheet

THERMSHAPE™

Saffil Board 160

Saffil Board 160 is manufactured from high alumina polycrystalline fibers, blended with specialty selected inorganic and organic binders to get rigid insulating boards with exceptional characteristics. These boards exhibit excellent insulating performance and high temperature stability for a wide range of applications up to 1600°C (2900°F). Polycrystalline wools are not classified as hazardous.

GENERAL CHARACTERISTICS

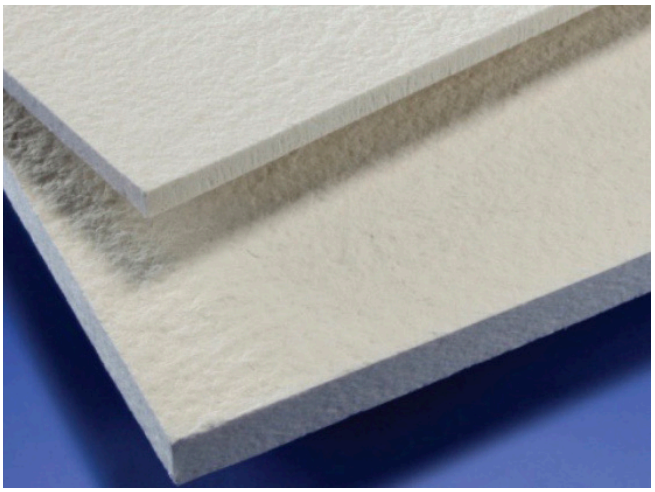
Saffil board 160 have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Thermal shock resistance
- Good handling strength
- Low heat storage
- High tensile strength and resilience
- Resistance to chemical attack
- Available max. thickness 50mm

SAFFIL BOARD 160

The boards contain a small percentage of organic binder plus inorganic hardening agents, resulting I products that display uniform hardness and density as well exceptional handling strength. Our in-house machining facilities allow for precise finishing of shapes to customer requirements. Further treatment is possible to increase hardness and remove organics prior to use. The following table summarizes the special grades that are available:

- SH Surface hardening
- DH Deep Hardening
- F Pre-Fired



TYPICAL APPLICATIONS

- High temperature kiln and furnace linings
- Billet/slab reheat furnaces
- Furnace door linings and seals
- Chemical process heaters
- Heat shields
- High temperature seals and gaskets
- Lab furnace insulation
- Muffle kiln / furnace insulation

Information on other applications available upon request. Any new and/or special use of these products, whether in an application listed in our literature, must be submitted to our technical department for their prior written approval.

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Typical Chemical Analysis (wt. %)	
Saffil	**Saffil Board 160**
Al_2O_3	90,0 – 92,0
SiO_2	8,0 – 10,0

Physical Properties	
Saffil	**Saffil Board 160**
Color	White
Temperature Grade*	2912 °F (1600°C)
Recommended Operating Temperature	2912 °F (1600 °C)
Loss on ignition (wt. %)	< 10

Permanent Linear Shrinkage (%) 24 Hour Soak	
Saffil	**Saffil Board 160**
2552 °F (1400 °C)	Tbd
2912 °F (1600 °C)	< 3%
Density	18 – 28 lb/ft³ (300 - 450 kg/m³)

Thermal Conductivity ASTM C-201		
Mean Temperature		**Btu in/hr ft² °F(W/mK)**
1112 °F	600 °C	0,923 (0,133)
1472 °F	800 °C	1,191 (0,172)
1832 °F	1000 °C	1,511 (0,218)
2192 °F	1200 °C	1,883 (0,272)
2552 °F	1400 °C	2,306 (0,333)

The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

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Alkegen
Email: info@Alkegen.com
Telephone: 716-768-6500
Canada: 1-800-635-4464

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