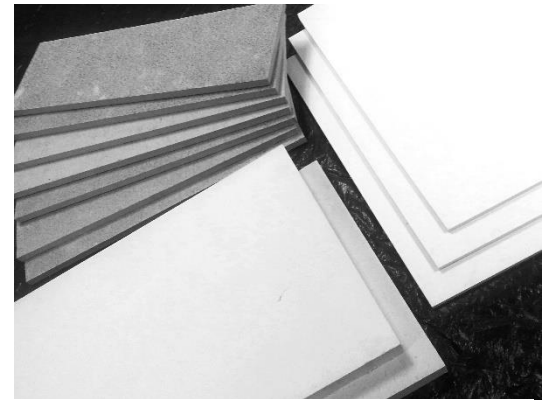


TaoFibre® Block-19 Mineral Wool Board

[TaoFibre Block-19](#) is a high temperature insulation board, which is made from mineral fiber and organic binder. This board is characteristic of excellent insulation efficiency and good strength for various high temperature applications, such as precipitators, dryers, ducts and breeching, utility boilers, furnaces, kilns, etc. The material is ideal for refractory backup insulation behind insulating firebrick and other refractory linings. There could be smoke generated when the binder in the fiber board is burnt above approximately 500°F but the smoke will disperse soon and once for all.



To limit or avoid such smoke generation in initial start-up performance, heat rise should be controlled at about 20°F per minute to allow the binder to dissipate with moderate temperature increase. The ignition loss of binder in the first startup operation will not adversely affect the insulation value. TaoFibre Block-19 can be used at different service temperatures up to a maximum of 1900°F on the hot surface of the enclosed panel. This board is not to be subjected to direct touch with flame as a hot face refractory material.

Typical Specifications

Temperature: 1900°F (1050°C)

Standard Density: 17-19 lb/ft³

Common Thickness*: 1", 1 ½", 2", 3", 4"

Common sizes*: 12" x 36"

Typical Applications

- Insulating backup to brick & castable
- Furnace hot face lining
- Use in industrial heat process equipment
- High-temperature gasket & seals
- Flue & chimney linings in furnace & kilns
- Molten metal trough covers
- Expansion joints
- Industrial heat shields & thermal barriers
- Industrial combustion chamber construction
- Infrared element supports
- Board over blanket hot face lining
- Full thickness refractory lining
- High temperature boiler wall insulation
- Pouring forms for castable

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Main Properties

Block-19 Mineral Wool Board	
Classification Temp (°F)	1900
Working Temp (°F)	1700
Melting Point	3200
Color	Beige/White
Target Density (lb/ft ³)	17-19
Shrinkage (%) 24 Hours at Temp °F	0.25 (1742°F)
Thermal Conductivity W/mk (Btu in./hr./ft ² °F)	
752°F	N/A
1112°F	0.108
1472°F	0.116
Tensile Strength (Mpa)	0.25
Typical Chemical Analysis	
Al ₂ O ₃	20%
SiO ₂	48%
CaO	25%
Fe ₂ O ₃	≤2%
Note: Test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specific purposes.	