



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 Applications

TaoFibre Block-19 mineral wool board can be used to insulate plant equipment such as boilers, furnaces, ovens, ducts, precipitators, tanks and other mechanical equipment operating at continuous service temperatures up to 1900°F.

Thickness Sizes Available

Thickness of 1/2": 24" x 36", 24" x 48", 36" x 48"

Thickness of 3/4": 6, 12, 24" x 36"

Thickness of 1"-4": 6, 12, 24" x 36"; 24" x 48"

Note: Thickness above 2.5" subject to lamination.

Turn back for more specific product information

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Typical Physical Properties

Color	Grey white
Classification temp	1050 °C (1920 °F)
Operating temp	950 °C (1700 °F)
Dimension (mm)	1200x600x12.7 1200x600x25 1200x600x50
Bulk Density	14-16 lb/ft ³ (220-256 kg/m ³) 17-19 lb/ft ³ (272-304 kg/m ³)
Compression (Mpa)	0.25
Shrinkage on Heating (≤ %) 950 °C x 24h	0.25
Thermal Conductivity (W/mk)	
@ 400 °C	----
@ 600 °C	0.108
@ 800 °C	0.116

Typical Chemical Composition

Al ₂ O ₃	20%
SiO ₂	48%
CaO	25%
Fe ₂ O ₃	≤2%

Refer to the Material Safety Data Sheet (MSDS) for recommended work handling and product safety information.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. The information, recommendations, and opinions set forth are offered solely for consideration, inquiry, and verification, and are not, in part or total, to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice patented invention without a license.