

Product Data

10/05: 5792

Description: Mineral Wool, Block Insulation

INSBLOK-19 provides high strength and excellent workability. It is composed of mineral fiber and selected mineral additives. An organic binder that will dissipate above approximately 475°F is used for low-temperature handling. On initial start-up, heat rise should not exceed 15°F per minutes to allow the binder to dissipate without excessive temperature rise. This will occur only on the first startup and will not adversely affect the insulation value. An inorganic binder system allows INSBLOK-19 to be used at service temperatures to a maximum of 1900°F on the hot surface of the enclosed panel only. Not to be subjected to direct flame impingement as a hot face material. The density allows INSBLOK-19 to meet a variety of installation requirements.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	49.1%
Lime (CaO)	27.7%
Alumina (Al ₂ O ₃)	12.1%
Magnesia (MgO)	6.3%
Iron Oxide (Fe ₂ O ₃)	1.1%
Titania (TiO ₂)	0.5%
Alkalies (Na ₂ O + K ₂ O)	2.4%

Physical Data (Typical)

Maximum Service Temperature	
Used Behind Rigid Refractories	1900°F (1040°C)
Used Behind Ceramic Fiber Linings	1500°F (816°C)
Bulk Density	19 lb/ft ³ (0.30 g/cm ³)
Modulus of Rupture	115 lb/in. ² (0.8 MPa)
Linear Shrinkage	
Heated at 1900°F (1040°C) and then cooled	1.0%
Compressive Strength	
10% Deformation	38 lb/in. ² (0.3 MPa)
Corrosion on Steel	None
Surfacing Burning Characteristics	
Flame Spread	25
Smoked Developed	5
Specification Compliance Meets	Class 5 - Rigid
Thermal Conductivity	Btu · in/hr · ft ² · °F (W/m · °C)
At 400°F (205°C)	0.46 (0.07)
At 600°F (315°C)	0.55 (0.08)
At 800°F (430°C)	0.71 (0.10)
At 1000°F (540°C)	0.84 (0.12)
At 1200°F (650°C)	1.05 (0.15)

Note: This product is manufactured for HarbisonWalker International by a third party. The results reported herein have been supplied by the third party manufacture. The above data are reported as typical properties and should not be taken as establishing maximum or minimum specifications. The above data is not intended as a warranty of any kind.