Product Data

10/05: 5792

INSBLOK-19

Classification: Mineral Wool, Block Insulation

Description: INSBLOK-19 is a 1900°F maximum service temperature lightweight mineral wool block insulation. INSBLOK-19 exhibits very low thermal conductivity, good moisture resistance, easy handling, and easy cutting. Its organic binder gives INSBLOK-19 excellent cold strength but will dissipate above 475°F. INSBLOK-19 meets the ASTM C612 Class 5 specification. Its principal application is as a backup lining to lower furnace shell temperatures.

Chemical Analysis - Calcined Basis

Silica	(SiO_2)	49.1%
Alumina	(Al_2O_3)	12.1
Iron Oxide	(Fe_2O_3)	1.1
Lime	(CaO)	27.7
Magnesia	(MgO)	6.3
Titania	(TiO_2)	0.5
Alkalies	($Na_2O + K_2O$)	2.4

Maximum Recommended Temperature		
Used Behind Rigid Refractories	1900°F	1040°C
Used Behind Ceramic Fiber Linings	1500°F	815°C
	lb/ft^3	g/cm^3
Bulk Density	19	0.30
Linear Shrinkage		
Heated at 1900°F (1040°C) and Then Cooled	1.0%	
	lb/in^2	MPa
Modulus of Rupture	115	0.8
Compressive Strength	lb/in^2	MPa
10% Deformation	38	0.3
Corrosion on Steel	None	
Surfacing Burning Characteristics		
Flame Spread	25	
Smoked Developed	5	
Specification Compliance		
Meets	Class 5 - Rigid	

(Continued)

INSBLOK-19 (Continued)

Thermal Conductivity At a Mean Temperature of	Btu·in/hr·ft^2·°F	W/m·°C
400°F (205°C)	0.46	0.07
600°F (315°C)	0.55	0.08
800°F (430°C)	0.71	0.10
1000°F (540°C)	0.84	0.12
1200°F (650°C)	1.05	0.15

The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

October 12, 1995