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WOOL

3R2300

Description

The ceramic fiber blankets are produced from exceptionally pure oxides of alumina and silica using the spinning process. The 3R2300 is flexible and stays stable at high temperatures which makes it an excellent choice for insulation. It is also recommended as a refractory support.

Applications

The ceramic fiber blanket applications are numerous. It is used as insulation for furnaces, boiler combustion chambers, heat exchangers, gas turbines and high temperature fans, as removable insulating pads on steam valves and separators. It can also be used to fabricate insulating mats for superheated seals, stress relief pads and expansion joints. The 3R2300 is especially recommended for those applications requiring a low iron content of less than 1% and for highly reducing atmospheres.

Specifications

Technical Data	
Color	White
Density, lbs/ft³ (kg/m³)	4, 6, 8 (64, 96, 128)
Thickness, in. (mm)	1/4 - 2 (6.25 - 50)
Temperature	Continuous: 1175°C (2145°F), Short time: 1315°C (2395°F) , Melting point: 1760°C (3200°F)
Composition	Alumina, Al2O3: 46%, Silica, SiO2: 54%, Ferric oxide, Fe2O3: 0.05%
Thermal conductivity, BTU-in/hr-ft²- °F (w/m.k), ASTM C201 Mean Temperature - 500°F (260°C)	4 pcf: 0.54 (0.08), 6 pcf: 0.47 (0.07), 8 pcf: 0.44 (0.06)
Thermal conductivity, BTU-in/hr-ft²- °F (w/m.k), ASTM C201 Mean Temperature - 1000°F (538°C)	4 pcf: 1.34 (0.19), 6 pcf: 1.06 (0.15), 8 pcf: 0.93 (0.13)

Thermal conductivity, BTU-in/hr-ft²- °F (w/m.k), ASTM C201 Mean Temperature - 1500°F (816°C)	4 pcf: 2.48 (0.36), 6 pcf: 1.90 (0.27), 8 pcf: 1.60 (0.23)
Thermal conductivity, BTU-in/hr-ft²- °F (w/m.k), ASTM C201 Mean Temperature - 1800°F (982°C)	4 pcf: 3.23 (0.47), 6 pcf: 2.45 (0.35), 8 pcf: 2.05 (0.30)
Thermal conductivity, BTU-in/hr-ft²- °F (w/m.k), ASTM C201 Mean Temperature - 2000°F (1093°C)	4 pcf: 3.74 (0.54), 6 pcf,: 2.83 (0.41), 8 pcf: 2.34 (0.34)