

Ceramic Cloth G08

PRODUCT DESCRIPTION

G08, .125" thick is a woven ceramic cloth. It is aluminosilicate based refractory fiber, white and odorless. It also contains Inconel wire and high temperature fiberglass reinforcement carriers.

MAIN CHARACTERISTICS

G08 is lightweight and has very low thermal conductivity with excellent insulation values at temperatures up to 2300°F/1260°C. It also resists corrosive chemicals, commonly used acid and alkali. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. The fiber is abrasion-resistant but is also relatively abrasive to other materials as well. It can be used in tough environments and is a good substitute for many asbestos products as insulation and sealing applications. If dampened by water or steam, all thermal and physical properties are completely restored upon drying. No water of hydration is present.

G08 contains a certain amount of organic binder materials (for weaving purposes only) and will generate small amounts of smoke and trace element out-gassing during the initial exposure to temperatures above 450°F/232°C as a result. After the organic binder is burned out, the product will turn white again. In applications where smoke is prohibited, the product should be heat treated first before it is put to use.

Chemical and Physical Data:

Chemical Composition (refractory fiber only):

Total Al₂O₃ and SiO₂>97%(Al₂O₃: 47%), Fe₂O₃: <1.1%

Physical Properties:

Refractory Fiber Content: >85%

Weight Loss (1800°F): 8-10%

Fiber Physical Properties:

Fiber Diameter: 2 – 4 microns, Fiber Length: 100 – 250 mm

Fiber Shrinkage (1800°F/980°C, 3h): <3.5%

Working Temperature: 1800°F/980°C for continuous use, 2300°F Maximum

Insulation Properties:

Working Temperature

Thermal Conductivity of Fiber

(BTU/sq.ft. °F/in.)

(W/m °K)

570°F/300°C

0.84

0.12

1,100°F/600°C

0.91

0.13

1,800°F/980°C

1.19

0.17

Gaskets, Inc

301 West Hwy 16
PO Box 398
Rio, WI 53960

800-558-1833 WATS
920-992-3137 Ph.
920-992-3124 Fax

Product and Safety Information

Standard Size:

1/8" X 39.4" (41 oz.)

Ceramic cloth is refractory fiber. It is classified in Group 2b (possible human carcinogen) by International Agency for Research on Cancer (IARC). Based on animal study, it is a possible cancer hazard by prolonged heavy inhalation of this fiber. It may also cause irritation to skin and eyes and/or irritation to respiratory tract, scratchiness of the nose or throat, cough or chest discomfort.

Protective clothing, gloves, and dust mask are recommended for handling. In high airborne fiber dust environment, use local exhaust ventilation, dust collection, and other equipment designed to minimize airborne fiber emissions. Always avoid airborne fiber exposure. Handle with extra caution after fiber becomes cristobalite at 1800°F or higher temperature.

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G08 Ceramic Fabric Sheet
Last Up Date 06/09