



TECHNICAL DATA SHEET

Introduction

This ceramic fiber cloth has additional alloy steel wire reinforcement, which is a woven fabric that is manufactured from high purity alumino-silicate based ceramic fiber, reinforced with fiberglass filament. The product is white and odorless, suitable for high temperature applications up to 2300°F.

Main Characteristics and Properties

- Low thermal conductivity, low heat storage, high temperature stable and thermal shock resistance
- Fire and flame proof
- Chemical resistant, compatible with most corrosive chemicals, commonly used acid and alkali (exceptions are hydrofluoric, phosphoric acids and concentrated alkalis)
- Lightweight, woven texture with excellent handling strength

Chemical and Physical Data

| | |
|--|--|
| Chemical Composition (refractory fiber only) | Total Al ₂ O ₃ and SiO ₂ > 97% (Al ₂ O ₃ : 47%) Fe ₂ O ₃ : <1.1% |
| Refractory Fiber Content | >85% |
| Weight Loss (1800°F) | 8 – 10% |
| Fiber Physical Properties | Fiber Diameter: 2 -4 microns Fiber Length: 100 – 250mm Fiber Shrinkage (1800°F, 3h): <3.5% |
| Working Temperature | 1800°F Continuous Use 2300°F Maximum |
| Specific Heat (at 2000°F) | 0.27Btu/lbs. °F |

| Working Temperature | Thermal Conductivity of Fiber | |
|---------------------|-------------------------------|--------|
| | BTU/sq.ft °F/in | W/m °K |
| 570°F | 0.84 | 0.12 |
| 1100°F | 0.91 | 0.13 |
| 1800°F | 1.19 | 0.17 |

Product Applications

- Safety and protective insulation cover, curtain, blanket and welding blanket
- Expansion joint fabric
- Insulation wrapping material for cable, wire, pipe, exhaust, etc
- Gaskets, tadpole gasket and other high temperature insulation seal



Toronto • Montreal
www.specialtygaskets.com

DISCLAIMER: The information in this Technical Data Sheet is believed to be correct as of the date issued. Specialty Gaskets Inc. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Specialty Gaskets Inc. product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Specialty Gaskets Inc. Product it is essential that the user evaluate the Specialty Gaskets Inc. product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.



ISO 9001