



## TECHNICAL DATA SHEET

### VERMICULITE COATED CERAMIC BLANKET MODEL : FB21 (2x1)

#### Product Introduction

Ceramic Fiber Cloth is a high-temperature woven fabric made from premium ceramic fiber yarns. It is designed for use in applications requiring heat resistance up to 2300°F. These durable yarns, twisted from ceramic fiber strands, are ideal for thermal insulation in various installations and play a crucial role in heat-conducting systems.

#### Features

- Low thermal conductivity and heat storage for enhanced insulation.
- High-temperature stability with excellent thermal shock resistance.
- Fire and flameproof for superior safety in high-heat environments.
- Chemical resistant and compatible with most corrosive chemicals, acids, and alkalis (excluding hydrofluoric and phosphoric acids, and concentrated alkalis).
- Lightweight, woven texture offering excellent handling strength and durability.



#### Product Specifications :

**Reinforcement:** Stainless Steel (SS) or Fiberglass (FG) yarn with SS wire insert (42-gauge soft 304).

**Color:** Dull off-brown.

**Temperature Resistance:** Up to 1000°C for applications requiring strength.

**Basic Composition:** Fibers.

**Loss on Ignition:** 18-25%.

**Weight:** Minimum 1.4 kg/m (range: 1.5-1.7 kg/m).

**Weave Type:** Plain.

**Ultimate Strength:**

- **Warp:**  $\geq 76$  Kgf/5 cm.

- **Filling:**  $\geq 37$  Kgf/5 cm.

**Density:** 500-650 kg/m<sup>3</sup>.

**Thermal Conductivity:** 0.17-0.18 W/m·K at 1000°C.

**Thickness:** 3.5mm (+/- 10%)

#### Test Certificate:

ATIRA APPROVED : AS PER IS 11871 P/A

#### Udyogi