



## Technical Data

### Ceramic Fiber Fabric

#### Description

Ceramic fiber fabric is a soft, flexible cloth made of ceramic fiber yarn reinforced by fiberglass or steel wire. It is an ideal replacement for asbestos products used for thermal insulation and heat protection. It will not burn, rot, mildew or deteriorate and resist most acids. It has a low coefficient of thermal expansion and is suitable for temperature up to 650°C - 1050 °C.

#### Process

Yarn twisting → Cloth weaving

#### Specification

Item	Specification	
Weave	Plain	
Chemical Content	Al <sub>2</sub> O <sub>3</sub>	≥45%
	Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub> +ZrO <sub>2</sub>	≥96%
	Na <sub>2</sub> O+K <sub>2</sub> O	≤0.7%
	Fe <sub>2</sub> O <sub>3</sub>	≤1.2%
	ZrO <sub>2</sub>	---
Thermal Conductivity (w/m.k) 600C	0.13 - 0.16	
Filament Diameter (µm)	2 - 4	
Filament Length	20 - 50	
Thermal Shrinkage	≤3.5%	
Working Temperature	650C - 1050C	

#### Standard Size and Packaging

Style	Roll Size	Weight Per Roll	Reinforcement	Packaging
5EC2G	2.0mmX1mX30m	30kg	Fibreglass	Woven Plastic Bag
5EC2S	2.0mmX1mX30m	33kg	304 S/Steel	Woven Plastic Bag
5EC3G	3.0mmX1mX30m	42kg	Fibreglass	Woven Plastic Bag
5EC3S	3.0mmX1mX30m	45kg	601 Inconel	Woven Plastic Bag

\*Note: Suffix "H" denotes heat treatment.

#### Application

It is used in applications including welding blankets, stress relieving, removable insulation covers, fire blankets, fire curtains, expansion joints and flue ducts.