



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 temperatures up to 1260°C.

Process

Yarn twisting → Cloth weaving



Specification

Item		Specification
Weave		Plain
Chemical Content	Al ₂ O ₃	≥45%
	Al ₂ O ₃ +SiO ₂ +ZrO ₂	≥96%
	Na ₂ O+K ₂ O	≤0.7%
	Fe ₂ O ₃	≤1.2%
	ZrO ₂	---
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	2.0mm x 1m x 30m	30kg	Fibreglass	Woven Plastic Bag
5EC2S	2.0mm x 1m x 30m	33kg	304 S/Steel	Woven Plastic Bag
5EC3G	3.0mm x 1m x 30m	42kg	Fibreglass	Woven Plastic Bag
5EC3S	3.0mm x 1m x 30m	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.