

CARBOLANNE

INSULATION TECHNOLOGY



Description

Ceramic Fiber Paper is made from ceramic fibers bonded with a low percentage of organic binder; it has excellent thermal insulation properties and good handling characteristics.



Features

- ◆ Good resistance to tearing
- ◆ Low thermal conductivity and heat storage
- ◆ Thin, even density and precise thickness
- ◆ Excellent flexibility
- ◆ Absorb sound
- ◆ Easily die cut to form complex shapes
- ◆ Excellent tensile strength
- ◆ Lightweight
- ◆ Excellent stability and shrinkage

Typical Application

- Insulating gaskets and packing material
- Expansion joints material
- Boiler door seal
- Glass-making models and microcrystal glass and glass furnace
- Furnaces backup insulation
- Insulating for and electrical switch box fire protection
- Insulating material for electric-heating devices and apparatus
- Molten metal gaskets
- Acoustic and Thermal insulation for vehicles

Technical Data

Grade			1000Paper	1260 Paper	1350 Paper	1600 Paper
Classification Temperature		°C	1000	1260	1350	1600
Continuous working Temperature		°C	800	1000	1200	1538
Chemical Composition	Al ₂ O ₃	%	44	47	52	95
	SiO ₂	%	54	51	45	5
Density		kg/m ³	180			
Thermal Conductivity W/(m. K)	400	°C	(0.10)	(0.08)	(0.07)	
	600	°C	(0.15)	(0.12)	(0.10)	(0.08)
	800	°C	(0.20)	(0.19)	(0.16)	(0.11)
	1000	°C				(0.17)
Linear Shrinkage(°Cx24H)		%	1000°C—3	1000°C—3	1200°C—2.5	1500°C—2
Tensile Strength		Mpa	0.5	0.65	0.6	0.2
Standard Size	mm	Length x Width x Thickness				
		80000 x 600 x 0.5 ; 40000 x 600 x 1 ; 20000 x 600 x 2 ; 10000 x 600 x 3, 10000 x 600 x 4 ; 10000 x 600 x 5 ; 10000 x 600 x 6				