



# VULCANISED RED FIBRE

Mechanical Grade | Cotton Pulp

## FEATURES

Vulcanised Fibre is made by combining layers of chemically gelled paper of pure cotton cellulose. The chemical compound ( $ZnCl_2$ ) used in gelling the paper is subsequently removed by leaching, and the resulting product, after being dried and finished by calendaring, is a dense material and a chemically pure product. It is made in four primary forms: sheets, rolls, coils and tubes. Strong and light industrial material and has a high impact resistance. Good dielectric strength and high arc resistance. Can be formed, punched and machined.

## TECHNICAL INFORMATION

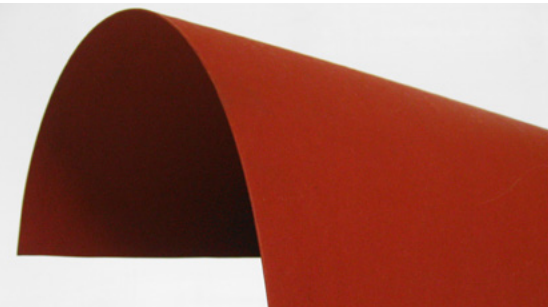
Density (g/cm <sup>2</sup> )	1.1 to 1.4
Colour	Natural Grey (W), Red (R), Black (B), White (SW)
Tensile Strength (kg/cm <sup>2</sup> )	MD 8 to 12, CD 5 to 8
Thermal Conductivity (Kcal/mh°C)	0.21 to 0.26
Specific Heat (Kcal/kg°C)	0.4
Coefficient of Linear expansion(mm/m100°C)	2.5 to 2.8
Moisture Content (%)	7-9
Heat Resistance (°C)	Continuous 110, (40,000 hrs) 105, (JIS K6911) 190
Water Absorption (%)	5 to 18
Compression Strength (kgf/mm <sup>2</sup> )	17 to 26
Dielectric Constant (1 KHz) (sec)	4 to 7
Flexural Strength (kgf/mm <sup>2</sup> )	MD 15 to 20. CD 13 to 15
Impact Strength (kgf/cm/cm)	MD 35 to 45. CD 25 to 30
Elastic Modulus (kgf/cm <sup>2</sup> )	5 x 10
Hardness (Rockwell)	R80-110
Insulation Resistance (Ωcm)	6 x 10
Breakdown Voltage (KV/mm)	6 to 12
Power Factor (60KHz) (sec)	0.03 to 0.08
Arc Resistance (sec)	120 to 140
Temp Index	Class A
UL 94 Flame Class	0.73 m/m UP HB
Flexibility	0.5mm 1.5R 1.0mm 2.5R
MSDS	Available upon request

## AVAILABLE SIZES

**STANDARD LENGTH** 0.25mm to 13.0mm

**STANDARD SIZES**  
 1250mm - 1400mm x 2M (0.25mm to 2.0mm)  
 1150mm - 1250mm x 1.8 - 1.9M (2.4mm to 5.0mm)  
 1100mm x 1.8M (6.0mm to 13.0mm)

Other sizes available upon request. May be customised to suit customer's application



## APPLICATIONS

Vulcanised Fibre can be used for the following types of applications:

- > **Electric Applications:** The high dielectric strength and superior mechanical strength afford broad applications – washers, insulating plates, arc barriers, switch and appliance insulation and formed parts.
- > **Heavy Electric Applications:** Good dielectric strength and superior arc resistance provide uses for electric motors, coils and transformers. Its high arc quenching characteristics are important in fuse tubes, lighting arrestors and switch plates.
- > **Mechanical and Structural Applications:** Excellent impact resistance, high compression resistance, corrosion resistance, wear resistance, and ease of fabrications provide wide range of applications such as material handling, washers and gaskets, golf club head inserts, abrasive disc backing.

Vulcanised Fibre can be used for:

- > Washers
- > Insulating plates
- > Switch and appliance insulation
- > Many other applications