



# Shiv Sales Corporation®

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## Pipe Section

It is a precisely engineered Resin Bonded Fibrous Insulation to offer maximum resistance to heat passage. These Fibres are spun from selected rocks, melted at 1600°C and blended to a carefully adjusted chemical composition. Its centrifugally spun fibres have a diameter 1/20<sup>th</sup> that of human hair which are felted using state of art Technology into bonded and cured pipe section to optimum density and resilience.

Over 25 million sq. mts. of Insulation are in service in prestigious projects within the country saving millions of tones of fuel year after year.

Mandrel wound and concentrically formed form fitting Pipe sections, Precisely made to fit standard pipe diameters offer uniform maximum resistance to passage of heat along and around the entire 360degrees of the pipe axis. Superior density of this product enhances compression resistance in services. These sections are easy to fit and hence afford speedy application to site.

### **Specification Conformance**

These Pipe sections manufactured from select rocks using state of the art technology conforms to local & international standards such as

IS: 9842

BS: 3958 Part-5

ASTM C547-95

### **Thermal Conductivity**

Standard Densities	144, 150 & 160 Kg/m <sup>3</sup>
Application Temperatures	-100°C to +8000°C
Standard Thickness*	25, 40, 50, 60, 65, 75mm
Diameter Range**	12.5mm to 350mm Nominal Bore.
Standard length	0.5, 0.75, 1.0 mts.
Facings (if specified)	Kraft {Paper, Scrim cloth, Canvas or Aluminium Foil.

## **Water & Moisture Repellency**

These Pipe sections, by use of special additives and fibre lay pattern has an angle of contact exceeding  $90^{\circ}$ c which make it totally resistant to ingress of water wherever called for. When tested as per IS, BS and ASTM standards the material exhibits excellent resistance to moisture as compared to materials like Calcium Silicate and Glasswool which are inherently hygroscopic in nature.

\* Insulation materials loose their properties when water or moisture enters their body.

## **Corrosion Protection**

The fibres, in the first place, are devoid of impurities like Halides (Chlorides & fluorides) and Sulphides which are commonly found in other materials such as Calcium Silicate. This is due to the fact that fibres are manufactured by a dry manufacturing process and its faint alkalinity actually fights against corrosive reactions. It meets various critical specifications including ASTM C 795 requirements where specified.

This feature is responsible for its exclusive selection for critical applications such as Nuclear Power plants, ship building and Railways coaches where corrosion resistance is of vital significance.

## **Fire Resistance**

Incombustible when tested as per IS: 3144 (Melting point of fibres is above  $1000^{\circ}$ c ( $1825^{\circ}$ F)).

## **Sound Absorption**

Excellent sound Absorption by virtue of its scientific fibre lay pattern ensuring controlled dispersion of air pockets and prices air flow resistance.

## **Thermal Conductivity**

Resin Bounded material is the only one to offer the LOW THERMAL CONDUCTIVITY to weight ratio thus minimizing the total load on the applied pipelines or equipment.

## **Inhibited Rockwool**

Where the stress corrosion is there on austenitic stainless steel inhibited Pipe sections are used. Inhibition is done by spraying sodium silicate of adequate quantity in order to lower chloride content as low as 2ppm.

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