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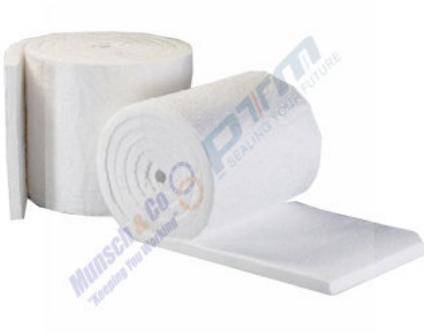
Technical Data Sheet

Glass and Ceramic Blankets

E-Glass

E Glass needlemat is manufactured with cut inorganic E type glass fibres that are thermally stable.



- The needlemat has good textile characteristics, excellent mechanical resistance and stability.
- The needlemat is soft, voluminous, supple, easy to perforate, cut and handle.
- Various punched and die-cut pieces of needle felt are available according to customer requirements.
- E Glass needlemat has a working temperature rating up to 550°C.

ECR-Glass

ECR Glass needlemat is manufactured from 9-10 micron filament ECR glass fibres that are specially carded to produce a high volume batt.

- The needlemat has good textile characteristics, excellent mechanical resistance and stability.
- The needlemat is soft, voluminous, supple, easy to perforate, cut and handle.
- Various punched and die-cut pieces of needle felt are available according to customer requirements.
- ECR Glass needlemat has a working temperature rating up to 700°C.

Applications

Used in nautical, naval, industrial, and automotive industries as insulation wadding for fabricated valve covers, exhaust and engine manifold covers, silencer infill; boiler insulation and pipe lagging.

Ceramic

Ceramic blanket is composed of long, flexible, interwoven fibres manufactured by the “blown” and the “spun” process.

- Ceramic blankets yield a strong, lightweight yet durable mat for applications in a temperature range 1260°C.
- Ceramic blanket has the heat resistance of a hard refractory yet with five times better insulation value, lower weight and the flexibility of a refractory wool.
- Low thermal conductivity, very low heat storage, very high tensile strength, thermal shock resistance, excellent sound absorption properties.
- Contains no binder, no fumes or furnace atmosphere contamination.
- Contains no asbestos.,

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UK GASKET & SEALING ASSOCIATION

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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- No curing or dry out time, lining can be fired to operating temperature immediately

Applications

- Excellent reformer and pyrolysis lining; tube seals, gaskets and expansion joints; high temperature pipe, duct and turbine insulation; crude oil heater linings.
- Excellent heat treating and annealing furnaces; furnace door linings and seals; soaking pit covers and seals; furnace hot face repairs; reheating furnace and ladle covers.
- Excellent for Kiln car insulation and seals.
- Excellent for boiler Insulation.
- Excellent for insulation of commercial dryers and ovens; veneer over existing refractory; stress relieving insulation; glass furnace crown insulation; fire protection; fabricated jackets etc.
- Also available with foil backing single or both sided.

N.B. Blanket is normally supplied loomstate. In the manufacture of ceramic yarn a certain small percentage of organic binder is used to aid spinning. This can sometimes cause "flashing" at high temperatures. This can be avoided if the product is heat cleaned prior to use or if the organic impurities in the product can be allowed to burn off in situ on application for the initial period.

To complement our range of PTFE coated glass cloths we also offer a wide range of coatings for our glass cloth including, Neoprene, Silicone, Polyacrylate, Vamac®, Polyurethane, PVC, Natural and Viton® including some anti-static grades.

Bio-Soluble

Bio Soluble (Body Soluble) blanket is composed of long, flexible, interwoven fibres manufactured by the "blown" and the "spun" process.

- Bio Soluble blankets yield a strong, lightweight yet durable mat for applications in a temperature range 1200°C.
- Bio Soluble blanket has the heat resistance of a hard refractory yet with five times better insulation value, lower weight and the flexibility of a refractory wool.
- Low thermal conductivity, very low heat storage, very high tensile strength, thermal shock resistance, excellent sound absorption properties.
- Contains no binder, no fumes or furnace atmosphere contamination.
- Contains no asbestos.
- No curing or dry out time, lining can be fired to operating temperature immediately.

Applications

- Excellent reformer and pyrolysis lining; tube seals, gaskets and expansion joints; high temperature pipe, duct and turbine insulation; crude oil heater linings.
- Excellent heat treating and annealing furnaces; furnace door linings and seals; soaking pit covers and seals; furnace hot face repairs; reheating furnace and ladle covers.
- Excellent for Kiln car insulation and seals.
- Excellent for boiler Insulation.
- Excellent for insulation of commercial dryers and ovens; veneer over existing refractory; stress relieving insulation; glass furnace crown insulation; fire protection; fabricated jackets etc.

In light of health and safety concerns for refractory ceramic fibre we strongly urge our customers to consider our S-Tex Silica, Silex Silica, HT Modified Glass or Bio Soluble alternatives. Please call us for data sheets on these.

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