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Ceramic Textiles

Ceramic Woven Tape

Description

Ceramic Textiles are made from alumina-silica ceramic fiber, free of asbestos. These fiber materials can be used in different industrial applications under temperatures up to 2300 °F (1260 °C) and have excellent chemical stability and strong resistance to thermal shock and corrosion attack. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. Ceramic Textiles also resist oxidation and reduction. If wet by water or steam, thermal properties are completely restored upon drying. No water of hydration is present.

Ceramic Tapes

Ceramic Tapes are very and flexible fabrics. Insert materials of inconel wire and fiberglass filament are incorporated into the yarn to increase tensile strength of the fabrics both before and after exposure to heat. Typical applications for tapes include gaskets, seals, furnace and welding curtains or pipe wrapping.

| Typical Product Properties | |
|--|---------------------------------|
| | Tape |
| Color | white |
| Width, (inch) | 1/2, 1, 2, 3, 4, 6 |
| Normal Section or Diameters, (inch) | -- |
| Normal thickness, (inch) | 1/8", 1/16" |
| Density, pcf | -- |
| Tensile strength grip, lb/f | 58 |
| Melting point, °F | 3200 |
| Continuous use up to °F | 2000 (wire) 1200 (glass) |
| Temperature Limit of Insert Material | 2000 °F(wire) 1200 °F(glass) |
| Chemical Analysis (Normal, % weight based after firing) | |
| Alumina, Al₂O | 47 |
| Silica, SiO₂ | 53 |
| Boron Oxide, B₂O₃ | -- |
| Calcium Oxide, CaO | -- |
| Magnesium Oxide, MgO | -- |