

## Description

Style 4969 & 4999 are Ceramic fibre products that are made from melting a combination of aluminium oxide and silica. The resultant fibres are white, cotton-like in appearance and have a high thermal stability, low conductivity of heat and good chemical resistance. Pure ceramic staple fibre cannot be processed into textile products, thus organic fibres must be added as spinning aid. The organic fibre content in tape is between 15% and 20%. The ceramic fibre is rated to 1260°C in optimum conditions however the organic fibre content will burn at 200°C resulting in a flash flame on first application. Due to the nature of the organic fibre burning the product is prone to shrinkage. The yarns are reinforced with wire (1000°C) or glass (550°C) to ensure that mechanical strength is maintained.

## Construction

Style 4969 is a ceramic tape constructed of ceramic fibre with a glass fibre leader.

Style 4999 is a ceramic tape constructed of ceramic fibre with a wire leader.

## Application

Ceramic products have properties of low thermal conductivity, excellent chemical resistance (except hydrofluoric acid, phosphoric acid and concentrated bases), good resistance to oxidising and reducing agents, no ignition loss and remain physically unaffected by water and steam. Ceramic fibres do, however, show poor resistance to vibration.

### Size - Style 4969 Packing

| Thickness | Width | Meter Per Roll |
|-----------|-------|----------------|
| 2mm       | 25mm  | 30m            |
| 2mm       | 40mm  | 30m            |
| 2mm       | 50mm  | 30m            |
| 2mm       | 75mm  | 30m            |
| 2mm       | 100mm | 30m            |

### Size - Style 4999 Packing

| Thickness | Width | Meter Per Roll |
|-----------|-------|----------------|
| 2mm       | 25mm  | 30m            |
| 2mm       | 40mm  | 30m            |
| 2mm       | 50mm  | 30m            |
| 2mm       | 75mm  | 30m            |
| 2mm       | 100mm | 30m            |

## Specification

| Item                | UoM | Magnitude                                                                  |           |
|---------------------|-----|----------------------------------------------------------------------------|-----------|
|                     |     | Style 4969 - Glass Leader                                                  | +550      |
| Working Temperature | °C  | Style 4999 - Wire Leader                                                   | +1000     |
| Base Yarn           | -   | Ceramic Fibre                                                              |           |
| Lubrication         | %   | SiO <sub>2</sub> – Silica                                                  | 50 – 52   |
|                     |     | Al <sub>2</sub> O <sub>3</sub> – Aluminium Oxide                           | 47 – 49   |
|                     |     | TiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , MgO, Na <sub>2</sub> O | Remainder |