



## Nexus Pump and Valve Packing

### DATA SHEET

#### **Nexus Style 4969 / 4999 Ceramic Fibre Tape**

##### **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.

##### **Sizes**

Style 4969		
Thickness	Width	Meter Per Roll
2mm	25mm	30m
2mm	40mm	30m
2mm	50mm	30m
2mm	75mm	30m
2mm	100mm	30m

Style 4999		
Thickness	Width	Meter Per Roll
2mm	50mm	30m
2mm	75mm	30m

##### **Specification**

Item	Unit	Magnitude
Working Temperature		
Style 4969 – Ceramic Fibre / Glass Leader	°C	+550
Style 4999 – Ceramic Fibre / Wire Leader	°C	+1000
Base Yarn		Ceramic Fibre
Chemical Composition:		
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