

TECHNICAL DATA SHEET

INMARCO STYLE 123

Description:

STYLE 123 Ceramic Fibre Rope is diagonally braided or over braided or around a bulk ceramic rope core, the fibers are either E-Glass reinforced or Stainless Steel wire reinforced and can withstand temperature up to 1260°C.

STYLE 123 is available with special chemical treatment which will not only make the product flame proof/fire retardant but also will increase the temperature resistance up to 1400°C.

STYLE 123 conforms to ISO14000 norms and is environmentally friendly, non-toxic and non health hazardous. Ceramic products conform to physical parameter including dimensions to IS 14656. There are no specific standards for ceramic fibre rope but are generally covered under ASTM C892.

Operational Parameters:

PROPERTIES	UNIT	VALUE
		Style 123/123-S
Composition – Al ₂ O ₃	%	42-46
SiO ₂	%	52-55
Fe ₂ O ₃	%	1
TiO ₂		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (@ average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	<100
Loss on Ignition (@average of 1200°C)	%	15max.
Linear Shrinkage (@ average 1200°C)	%	3
Average Density	Kg/m ³	600-800
Thickness	mm	3.0 to 90 cross section (round/square)
Standard Length	Mtr.	100 (3-10mm), 50 (12-25mm), 20 (30-50mm) & 10 (60-90mm)

Advantages:

- ❖ Non toxic, non health hazardous and environmental friendly.
- ❖ Longer life due to no less of strength at optimum working temperature.
- ❖ High thermal insulation properties ensures friendly working atmosphere.
- ❖ Non combustible and electrically non conductive (non metallic).
- ❖ Increase safety of plant personnel and improves productivity.

Typical Applications:

Superior replacement of asbestos static door seals in boilers/ovens/reformers/heat exchangers/radiant tube packing core/heat treatment furnaces/thermocouple tubes/dummy bar seals/insulation of pile lines/exhaust and pipe line expansion joints/high temperature valve glands in air, fuel and gas.

Service Media:

Superior heated and saturated steam, non oxidizing liquids and gases, hot blast, alumina in power and molten form, dyes and chemicals, mild acid and alkalis.

Note:

- ❖ Custom sizes and lengths possible, please contact our technical team for your requirements.
- ❖ Please indicate cross section required in square or round.

Style Index:

Style	Description
S - 123E	E-Glass plain inter-braided ceramic packing.
S - 123S	Stainless Steel wire reinforced inter-braided ceramic packing.
S - 123T	E-Glass reinforced inter-braided ceramic packing impregnated with Intherm® to enhance abrasion resistance and density.
S - 123V	E-Glass reinforced inter-braided ceramic packing impregnated with special synthetic dispersion to enhance density and temperature resistance.
S - 123ST	Stainless Steel wire reinforced inter-braided ceramic packing impregnated with Intherm® to enhance abrasion resistance and density.
S - 123SV	Stainless Steel wire reinforced inter-braided packing Impregnated with special synthetic dispersion to enhance density and temperature resistance.

All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

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