

TECHNICAL DATA SHEET

INMARCO STYLE 550

Description:

STYLE 550 Ceramic Fabrics are manufactured by weaving ceramic yarns. These yarns are manufactured from inorganic refractory oxides in fibrous form having composition of alumina, silica and some special additives. These are either e-glass reinforced or SS wire reinforced. These yarns are closely woven in power looms to manufacture the textile.

STYLE 550 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 550 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
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
Width	mm	1000
Thickness	mm	2.0 to 6.0
Standard Length	Mtr.	30

Advantages:

- ❖ Non toxic, non health hazardous and environmental friendly.
- ❖ Longer life due to no loss 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:

Thermal power station, iron & steel plants, Aluminum plants, Glass & ceramic industries, refineries, fertilizers, Cement industries, etc.

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 thickness and widths possible, please contact our technical team for your requirements.

Style Index:

Style	Description
S - 550	Plain E-Glass reinforced inter-woven ceramic fabric.
S - 550ET	E-Glass reinforced impregnated with Intherm® to enhance abrasion resistance and density.
S - 550EV	E-Glass reinforced impregnated with special synthetic dispersion to enhance density and temperature resistance.
S - 550ST	Stainless Steel wire reinforced impregnated with Intherm® to enhance abrasion resistance and density.
S - 550SV	Stainless Steel wire reinforced 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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