

Fire Protection & Insulation Solutions

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TECHNICAL DATA SHEET

Silica Glass Needlemat style DSNM12/180/H series Description and Advantages

Darco style **DSNM12/180/H series** needlemat insulation is composed of > 72% high silica glass fibres needled together into a stronger high temperature, corrosion and vibration resistant mat. Silica Needlemat is processed in such a way to maximise thermal and acoustic insulation efficiency. It is non respirable, non-itchy, non-combustible, asbestos free and contains no chemical binders. Above all Silica Needlemat has vibration resistant properties allowing it to be successfully used for engine exhaust jacketing, turbo covers and silencer packing. Other uses include seals in the glass industry, oven insulation, industrial furnaces, boilers and kilns and is an exceptional material for use as high temperature removable reusable insulation covers.



Specifications

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Thickness (mm)		12±1.0mm				
Width		1500±3mm				
Area Weight		2160±216g/m2				
Density		180±18kg/m3				
Breaking strength	Warp	≥35 N/50X200MM				
	Weft	≥60 N/50X200MM 72				
Service Temperature - Constant Max		800°C for lower shrinkage.				
Melting Temp.		1700°C				
Loss on heating (980°C, 30min)		≤3%				
Thermal shrinkage (980°C, 60min)		≤5%				
Length of roll		20+0.3m				
Roll weight		64.8±3kgs				
Porosity		80%-99.8%				
Physiologically Harmless refer MSDS		Yes				
Combustibility		Non combustible				
Fibre Diameter		Approx. 6 to 9 micron				
Chemical Data		SiO2 ≥72.0% +- 1, Balance Al2O3 and other				
Coating/finishes		None				

Thermal Conductivity

W/mk @ 130 kg/m3	0.06	0.08	0.11	0.13	0.16	0.25
Temperature	200°C	300°C	400°C	500°C	600°C	800°C