



Glass Needle Mats

Silica Needle Mats

	E-Glass	ECR-Glass HT	Sil-1000 HT
Classification Temperature, °C	550	750	1100
Density, kg/m ³	130	130	130
Fire Resistance	Incombustible	Incombustible	incombustible
Smoke Emission	None	None	None
Filaments Diameter, microns	7/12	7/13	6/9
Thermal Conductivity, W/m.K			
100°C	0,047	0,041	0,048
200°C	0,062	0,063	0,06
300°C	0,084	-	0,081
400°C	-	0,113	-
500°C	-	0,15	0,14
Raw Material	100% glass fibre "E" type	100% glass fibre "E" type	100% amorphous silica fibre
Chemical Composition, %			
SiO ₂	52-60	59-65	94-96
CaO	16-25	20-24	-
Al ₂ O ₃	12-16	12-15	3-4
Others	8-20	1-6	1-2
Roll Width (Toll. ± 10 mm), mm	1000	1000	1000
Available Thicknesses (Toll. ± 5%), mm	6-8-10-12-15-20-25	8-12	6-10-12

*E-Glass and ECR-Glass HT are "E" type glass fibre felts, mechanically needled and completely free of chemical bonds.
The needle system and the diameter of the fibres give the product high density, excellent insulating capacity and good acoustic absorption.
Classification Temperature: 550-750°C*

*Sil-1000 HT are amorphous silica fibre felts, mechanically needled and free of chemical bonding agents.
The high level of silica gives the product increased compactness, flexibility and resistance to high temperatures.
Classification Temperature: 1100°C*