



ASGLAMAT® stitch bonded needle mat on base of glass needle mat according to DIN 1259.

Technical properties	Types of ASGLAMAT®			
	800	1500	1600	2900 ³⁾
Type GL-NGM	800	1500	1600	2900
Weight per area unit [g/m ²] ¹⁾	800	1500	1600	2900
Tolerance [%]	± 10	± 12	± 12	± 7
Thickness [mm] ^{1) 2)}	4 ± 1	6 ± 1	7 ± 1	12 ± 1,5
Filament diameter glass fibre [µm]	> 6 - 20			
Standard width [cm] ¹⁾	100 ± 1			
Roll length [m] ¹⁾	60 / 240	15 / 50	50 / 150	25 / 80
Tolerance [%]	± 1	± 1	± 1	± 1
Lamination / Self adhesive (PSA)	Laminating (30 µm to 100 µm Al-foil) or self adhesive equipment possible.			
Fibre length/starting situation	60 - 90 mm			

Chemical properties			
Colour	white		
Smell	without		
Bonding agent	without		
Material specification, rated value [%]	E-glass acc.to DIN 1259 SiO ₂ = 50 - 56	CaO = 16 - 25 Al ₂ O ₃ = 12 - 16 MgO ≤ 6	B ₂ O ₃ = 6 - 13 Na ₂ O = 0 - 2 K ₂ O ≤ 0,5

Physical properties	
Form	stitch bonded needle mat
Physiological behaviour	physiological harmless
Toxikological behaviour	not dangerous
Thermal stability	glass fibre 500 °C, sewing thread 180 °C
Behaviour in fire	acc. to IMO Resolution FTPC part1 not flammable
Change of state	glass fibre starts sintering at about 650 °C

Thermal properties				
Average temp. [°C]	0	20	50	100
Thermal conductivity [W/mK]	0,036	0,039	0,043	0,047
Average temp. [°C]	150	200	250	
Thermal conductivity [W/mK]	0,053	0,06	0,069	

Other specifications	
Vibration behaviour	resistant to vibration
Ecological information	ecological harmless; suitable to recycle
Safety measures	technical not necessary; personal not necessary
Make up	on pasteboard tubes, 76 mm diameter inside
Storage	dry and protected against moisture
Transport	Separate make up units of ASGLAMAT® are packed in foil and to be transported in clean and covered vehicles or closed containers.

¹⁾ different measures on inquiry

²⁾ method of measurement: measuring instrument with 25 cm² round area

³⁾ optional one side covered with PES-veil 15 g/m²