



ASGLAVLIES®, type **GL-S-NA** is a mechanically consolidated needle non-woven made of E-glass according to DIN 1259.

Technical properties	Types of ASGLAVLIES®							
	600	1000	1500	2000	2500	3000	4500	5500
Type GL-S-NA	600	1000	1500	2000	2500	3000	4500	5500
Weight per area unit [g/m ²]	600	1000	1500	2000	2500	3000	4700	5500
Tolerance [%]	± 10	± 10	± 10	± 12	± 12	± 12	± 15	± 15
Raw density [kg/m ³] ¹⁾	120	150	170	170	170	150	180	220
Filament diameter [µm]	> 6							
Thickness [mm] ³⁾	5	7	9	12	15	20	25	25
Tolerance [mm]	± 1	± 1	± 1	± 1	± 1	± 2	± 2	± 2
Standard width [cm] ²⁾	100							
Tolerance [%]	± 1							
Roll length [m] ²⁾	50	30	15	10	10	10	10	10
Tolerance [%]	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1
Lamination / Self adhesive	Laminating (25 µm to 300 µm Al-foil) or self adhesive equipment possible.							

Chemical properties			
Colour	white		
Smell	without		
Bonding agent	without		
Specification of material	E-Glas acc. to	CaO = 16 - 25	MgO ≤ 6
Rated value [%]	DIN 1259	Al ₂ O ₃ = 12 - 16	B ₂ O ₃ = 6 - 13
	SiO ₂ = 50 - 60	K ₂ O ≤ 0,5	Na ₂ O = 0 - 2

Physical properties	
Form	needle mat
Physiological behaviour	physiological safe
Toxicological behaviour	harmless
Thermal stability	-40 °C to 600 °C
Change of state	starts sintering at about 650 °C (glass fibre)
Behaviour in fire	not flammable

Thermal properties - Thermal conductivity (170g/m ³)						
Average temperature [°C]	50	100	200	300	400	500
TC [W/m ² K] ¹⁾	0,037	0,042	0,054	0,064	0,084	0,102

Other specifications	
Vibration behaviour	resistant to vibration
Ecological information	ecological safe; possible to recycle
Safety measures	technical not necessary; personal not necessary
Make up	on pasteboard tubes, 76 mm or 40 mm diameter inside
Storage	dry and protected against moisture
Transport	Separate make up units of ASGLAVLIES® are packed in foil and to be transported in clean and covered vehicles or closed containers.

¹⁾ rated value

²⁾ different measures on inquiry

³⁾ method of measurement: measuring instrument with 25 cm² round area

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