

# HR-Glass Fibre Needle Mats Technical Data Sheet



	Type 450 – 4	Type 800 – 6	Type 1300 – 10	Type 1800 – 12	Type 2000 – 12	Type 3000 – 20	Type 3300 – 25
mass per area unit <sup>1)</sup> nominal value tolerance	450 g/m <sup>2</sup> + / - 12 %	800 g/m <sup>2</sup> + / - 10 %	1300 g/m <sup>2</sup> +/- 10 %	1800 g/m <sup>2</sup> +/- 12 %	2000 g/m <sup>2</sup> + / - 12 %	3000 g/m <sup>2</sup> +/- 12 %	3300 g/m <sup>2</sup> +/- 12 %
thickness in mm <sup>2)</sup> average single values	4 +1,5 /- 1,0 2-6	6 +/- 1 4-8	10 +/- 1 7-12	12 +/- 2 9-15	12 +/- 2 9-15	20 +/- 2 16-24	25 +/-2 20-28
density nominal value	112,5 kg/m <sup>3</sup>	133 kg/m <sup>3</sup>	130 kg/m <sup>3</sup>	150 kg/m <sup>3</sup>	167 kg/m <sup>3</sup>	150 kg/m <sup>3</sup>	132 kg/m <sup>3</sup>
type of glass	100% silicate glass						
binders	free of binders						
temperature resistance	800°C						
reaction to fire	non-combustible						
standard width <sup>3)</sup> tolerance	100 cm +/- 1 cm						
roll length, m	50	50	30	20	20	10	10

1) = Tolerances given refer to test specimen 316 x 316 mm      2) = Method of measuring: measurement device with 25 cm<sup>2</sup> tapping surface, measuring pressure 10 g/cm<sup>2</sup>, resp. 5 g/cm<sup>2</sup> at 14 und 20 mm      3) = Other widths up to 200 cm or other lengths available on request

## Thermal conductivity

Temperature °C	50	100	200	300	400	500	600	700	760
λ (W/mK)	0,040	0,042	0,051	0,067	0,089	0,119	0,156	0,200	0,230

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### **Packaging, storing, transportation**

Delivery is made in rolls. The rolls are wrapped on cardboard sleeves with an inner diameter of 76 mm. Each roll is separately packed in foil. Rolls have to be stored and transported dry, most suitable in original packaging. Transport only in clean and closed trucks or closed containers.

Information, details, and data of our brochure are according to the best of our knowledge, if possible proved by tests and are for information only. We recommend tests according to your specific conditions. Our technical and commercial department will be at your service at all times.

10/2023

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