

Technical Data Sheet BCF Fibres Needlefelts / Mats

Non woven mats made of 100% BCF fibers with high thermal insulation properties. High thermal and chemical resistances. No bonding agent. Safe & harmless physiologically. Environment friendly and recyclable. Wide range of densities and thicknesses standard. Other designs upon request. Brown colour. No smell. Can be laminated to a BCF fabric for fire blocking and mechanical strength.

Specifications

Type	4/120	6/130	7/150	8/130	10/130	12/150	20/150	25/150
Volumetric Density [kg/m³]	120	130	150	130	130	150	150	150
Surface Density [g/m²] (1)	480	780	1.000	1.040	1.300	1.800	3.000	3.750
Tolerance [%]	± 12							
Thickness [mm] (2)	4	6	7	8	10	12	20	25
Tolerance [mm]	± 1						± 2	
Width [cm]	100							
Tolerance [cm]	± 1							
Roll Length [m]	50	50	50	40	30	25	15	10
Tolerance [%]	± 1							

Filament diameter [µm] (3)	12 - 15
Sizing type	Silane
Sizing content [%] (4)	0.1 – 1.5
Thermal stability [°C]	At continuous temperature of 550 °C and peak temperatures till 1200 °C
Fire behaviour (5)	Incombustible
Safety measures (6)	Technical and personal not necessary
Make-up	Rolls on cardboard tubes with 76 mm inside diameter, wrapped and sealed in plastic foil
Storage	Dry, protected against moisture
Transportation	In clean covered vehicles or closed containers

Thermal properties

Thermal Conductivity [W/m.°K] with tolerance of +/- 5%									
Average Temperature [C°]	20°	100°	200°	300°	400°	500°	600°	700°	800°
Density :									
130kg/m³	0.031	0.034	0.042	0.058	0.083	0.120	0.168	0.229	0.303
150kg/m³	0.031	0.033	0.041	0.056	0.079	0.112	0.155	0.209	0.274
170kg/m³	0.031	0.032	0.039	0.053	0.075	0.105	0.143	0.191	0.248

Notes:

- (1) ISO 3374
- (2) Thickness measuring device with measuring surface of 25 cm²
- (3) ASTM D578
- (4) ISO 1887
- (5) DIN 4102
- (6) Material Safety Data Sheet upon simple request.