

Technical Data Sheet

S 3540a



nonwoven

S 3540a is a high temperature nonwoven fabric, manufactured by air lay technique from high purity textile fibers (Polysilicic acid), colour white.

Technical Data			
Type (S 3540a/...)		6-900	8-960
Thickness (approximate)	[mm]	6.0	8.0
Weight (approximate)	[kg/m ²]	0.9	0.960
Density (approximate)	[kg/m ³]	150.0	120.0
Thermal stability long term	[°C]	1,050	
Melting range	[°C]	> 1,500	
Shrinkage at 1,000 °C (2h)	[%]	≤ 6	
Heat conductivity (110 kg/m ³)	[W/mK]	100 °C 1,000 °C	0.050 0.430
Standard deviation of mean		1.2	
Fiber diameter	[µm]	9	
Atomic fiber structure		amorphous	
General fiber characteristics		zero shot non-respirable non-dusting organic binder free	
Combustibility		incombustible	
Chemical resistance		acids, water, organics, weak alkalines	

Main function: Heat insulation

Applications: Automotive industry, rail vehicle production, industrial furnaces, household appliances

Processing: Mechanical attachment
 Processing temperature: 18 - 25 °C

Storage conditions: Dry at temperatures between 18 - 25 °C
 Max storage time: unlimited

Delivery forms: The material is available in rolls,
 roll length 30 running meters, 1,000 mm wide (S 3540a/8-960)
 40 running meters, 1,000 mm wide (S 3540a/6-900)
 other sizes and water-jet cutting on request.

The Material is non-respirable, environmentally friendly and non-hazardous. The fibres are neither classified by European directive 67/548/EWG and 97/69/EC nor by German TRGS 905 and 619.

The technical data (average values) as well as material information are based on our present knowledge and experiences. They free the user because of the fullness of possible influences by the application of our products, however, not from own tests and attempts in the approach of the real application. Because of the peculiarities of every individual case we can take over no liability for our indications. On request we are available gladly with information.