

SARTEC® Air Filter Media Type: 220022

SARTEC® air filter media provide highest filtration efficiency and constantly low pressure drop over the entire life time. The key component of SARTEC® air filter media are high performance spherical adsorbers with well-defined size distribution, pore structure, and activation level. The SARTEC® family of products incorporates these spherical adsorbers with homogeneous open cell polyurethane foam, resulting in unique filtration media for different applications in multiple shapes and various environments.



Technical Data*

	Value	Unit	Method
Physical properties:			
Dimension	Max 1800 x 600	mm	
Thickness	20 +/-1	mm	
Area weight	3600 +/- 500	kg/m ²	
Adsorber content	> 68	%	
Operating temperature	-40 to +100	°C	
Pressure drop:			ISO 11155-1
Pressure drop @ 0.35 m/s	< 5	Pa	
Pressure drop @ 0.7 m/s	< 15	Pa	
Pressure drop @ 1 m/s	< 25	Pa	
Pressure drop @ 1.5 m/s	< 50	Pa	
Toluene adsorption performance:			ISO 11155-2, double layers
Initial removal efficiency	> 95	%	(10 ppm toluene @ 0,35 m/s, 23 °C, 50 %RH)
Time until 10 % breakthrough	>7	h	
Time until 10 % breakthrough	>18	h	
Initial removal efficiency	> 90	%	(10 ppm toluene @ 0,73 m/s, 23 °C, 50 %RH)
Time until 10 % breakthrough	> 1	h	
Time until 50 % breakthrough	> 10	h	
Flammability:			
Flammability (edge)	Class K1		DIN 53438, part 2
Flammability (area)	Class F1		DIN 53438, part 3

*Data refer to semifinished material; the final products will be cut to required dimensions

Depending on specific applications, additional information can be provided:

1. Pressure drop curves for specific flow rates or the complete curve
2. Adsorption performance (including complete breakthrough curves) under various conditions, such as:
 - Single or multiple layers
 - Different gaseous contaminants (toluene, butane, various hydrocarbons)
 - Various flow rates
 - Various challenge concentrations
 - Various temperature and relative humidity