

Chemsorb® 1000

High-grade virgin activated carbon for organic vapor adsorption.



molecular

Description

Chemsorb® 1000 is specifically designed as a high-grade activated carbon for use in critical filtration applications such as breathing air respirators. This high activity carbon is produced from select coconut shell char and is steam activated in rotary kilns. The rigidly controlled conditions under which Chemsorb® 1000 is manufactured ensure a high quality, virtually dust-free carbon for maximum adsorption of organic vapors.

Typical properties

Test method

Carbon base	Granular coconut-shell	
Activity, CCl₄	60, 70, or 85% minimum	ASTM D3467
Hardness, ball-pan	95 minimum	ASTM D3802
Ash content	5% maximum	ASTM D2866
Apparent density (Dry)	0.42-0.50 g/ml**	ASTM D2854
Surface area	1000 m ² /g minimum	N ₂ BET method
Moisture content, as packed	5% maximum	ASTM D2867

**This density range is based on a 70% Activity level and a 12 x 20 particle size. The density values for other activity levels and particle sizes will differ.

Standard mesh size (US Sieve)

Molecular Products Inc. designation	Particle size	ASTM D2862
G5	20 X 50	
G12	12 X 20	

Particle size distribution

Oversize maximum	5%
Nominal mesh size	90% minimum
Undersize maximum	5%

Note: This spec sheet indicates physical properties that are standard and typical. Molecular Products Inc. will meet custom specification as required.

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