

Chemsorb® 1321

High-grade impregnated activated carbon for removal of airborne mercury vapor.



molecular

Description

Chemsorb® 1321 is specifically designed as a high-grade impregnated activated carbon for use in critical filtration applications such as breathing air respirators. The proprietary reagent used to impregnate this high activity coconut shell carbon has shown superior results for the adsorption of airborne mercury vapor. Chemsorb® 1321 is virtually dust-free, ammonia-free, and contains no heavy metals such as copper, lead, mercury, nickel or chromium.

Typical properties

Test method

Carbon base	Granular coconut-shell	
Activity, CCl₄*	70, minimum	ASTM D3467
Hardness, ball-pan	95 minimum	ASTM D3802
Ash content	5% maximum	ASTM D2866
Apparent density (dry)	0.47-0.55 g/ml**	ASTM D2854
Surface area*	1000 m ² /g minimum	N ₂ BET method
Moisture content, as packed	4-8%	ASTM D2867

* Indicates properties of activated carbon prior to impregnation

**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 technical datasheet indicates physical properties that are standard and typical. Molecular Products Inc. will meet customer specifications as required.