

Chemsorb® 705



molecular

High-grade impregnated activated carbon for removal of radioactive methyl iodide.

Description

Chemsorb® 705 adsorbent is specifically designed for the removal of airborne radioactive methyl iodide from nuclear containment atmospheres. The material is based upon a high activity coconut-shell carbon, which is virtually dust-free. With a minimum of 97% removal efficiency for radioactive methyl iodide, this material meets nuclear regulatory guide 1.52. The carbon is free of ammonia, and contains no heavy metals such as copper, lead, mercury, nickel or chromium.

Typical properties

Test method

Carbon base	Granular coconut-shell	
Activity, CCl₄*	60% minimum	ASTM D3467
Hardness, ball-pan	95 minimum	ASTM D3802
Ash content	5% maximum	ASTM D2866
Apparent density	0.46-0.58 g/ml	ASTM D2854
Surface area*	1000m ² /g minimum	N ₂ BET method
Moisture content, as packed	13-18%	ASTM D2867

* Indicates properties of activated carbon prior to impregnation

Standard mesh size (US Sieve)

Molecular Products Inc. designation	Particle size	ASTM D2862
G1	4 × 8	
G2	6 × 12	
G3	8 × 16	
G5	20 × 50	
G12	12 × 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.

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