

# Activated Carbon FORMASORB

# **Specialty Activated Carbon**

FORMASORB is a specialty impregnated, coconut shell-based activated carbon. It was specifically developed for the removal of formaldehyde, which is difficult to remove using other adsorbents, including standard activated carbon. FORMASORB is capable of removing formaldehyde and other aldehydes in trace concentrations from gas streams. It is manufactured by high-temperature steam activation of coconut shells under rigidly controlled conditions, followed by impregnation. The carbon is a proven product for a variety of applications including industrial processes and indoor air quality.

#### **Specifications**

Gas Capacity [ASTM D-3467]	55% w/w Minimum
Moisture Content [ASTM D-2867]	20% w/w Maximum
Particle Size [ASTM D-2862]	4x8, 6x12 US Mesh

### **Typical Properties**

Ball Pan Hardness [ASTM D-3802]	90
Ash Content [ASTM D-2866] (Base Material)	3% w/w
Surface Area [BSC 90-035]	1150 m²/ g
Bulk Density [ASTM D-2854]	0.60 g/cm <sup>3</sup>

#### **Packaging Options**

50 Pound bags	Bulk tanker	15 Gallon drum
55 Gallon drum	1,000 Pound bulk sacks	

Unless otherwise specified, particle size distribution will be 5% maximum on the top screen and 5% maximum through the bottom screen. An MSDS is available for all BSC activated carbon products. If the moisture exceeds the referenced value, BSC weight adjusts to the referenced value.

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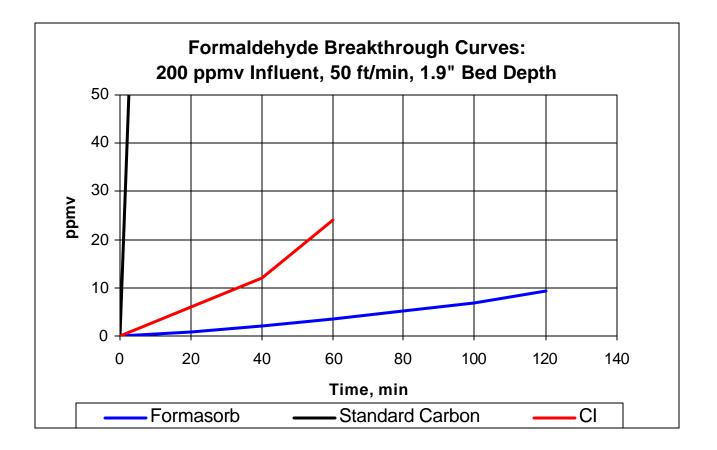


## Test Data

Accelerated column tests were conducted to compare FORMASORB and to a standard coalbased carbon and a competitive product for formaldehyde removal. The testing was conducted under the following conditions:

Influent Concentration:	200 ppmv
Superficial Velocity:	50 ft/min
Bed Length:	1.9 inch
Air Relative Humidity	25%

The following plot shows breakthrough curves for the three different carbons. As shown, the standard carbon showed immediate breakthrough. Based on these and other data FORMASORB has an estimated capacity for formaldehyde of 4 to 7% by weight.



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