

H-PAC™ High Temperature Mercury Sorbent

DESCRIPTION

H-PAC is a brominated powdered activated carbon specifically manufactured for high temperature flue gas environments.

APPLICATIONS

H-PAC is designed for plants with high temperatures of up to 426°C

FEATURES

Albemarle's H-PAC sorbent is a high-performance solution to mercury control challenges in systems with hot-side electrostatic precipitators and for injection upstream of the air preheater. H-PAC technology combines the proven bromination technology pioneered in our B-PAC™ sorbents with advanced techniques for optimized performance at temperatures of up to 426°C.

Hot-side ESPs have been proven to make mercury capture difficult with traditional activated carbon sorbents at temperatures above 204°C. Through extensive field trial and full scale site demonstration work, Albemarle is able to optimize the performance characteristics of H-PAC to achieve removal rates 70% with flue gas temperatures in excess of 371°C.

H-PAC can also be used for injection on the hot side of air preheaters. Sorbent consumption can be significantly lowered by utilizing the intimate mixing of sorbent and flue gas through the air preheater. H-PAC is required to take maximum advantage of this configuration designed for high-temperature performance.

TYPICAL PROPERTIES*

Bromine, (wt %)	8
Moisture, % as packed	8
Ash, (wt %)	<12
Iodine Number, mg/g	>500
Tapped Bulk Density, g/ml	0.6
Ignition Temperature, °C	>400
Particle size, percent passing through 325 mesh	95

*These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.

**SAFETY AND HANDLING
INFORMATION**

Wet activated carbon removes oxygen from air. In a partially closed, closed or confined space, oxygen levels may become depleted. If workers are to enter a vessel containing activated carbon, all applicable low-oxygen work rules and procedures should be followed, including all applicable Federal and State requirements.

**CHEMICAL REGISTRATION
NUMBERS**

CAS: 7440-44-0

RESPONSIBLE CARE

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Safety Data Sheets (SDS) are available upon request.



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