

**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 800°F.

**Typical Properties**

Bromine, wt. %	.....7
Moisture, % as packed	.....8
Ash, wt. %	.....<12
Iodine Number, mg/g	.....>500
Tapped Bulk Density, lbs/ft <sup>3</sup>	......35
Ignition Temperature, °C	.....>400
Less than 325 mesh	.....95

**Features and Benefits**

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<sup>™</sup> sorbents with advanced techniques for optimized performance at temperatures of up to 800°F.

Hot-side ESPs have been proven to make mercury capture difficult with traditional activated carbon sorbents at temperatures above 400°F. 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 over 70% with flue gas temperatures in excess of 700°F.

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.

**Shipping Information**
**Container Information**

Pneumatic Hopper Trucks

**Transportation Classification**

Not regulated for transportation

**Chemical Registration Numbers**

CAS: 7440-44-0

**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.

## Responsible Care

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Material safety data sheets (MSDS) are available upon request.

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The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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