

# FLUEPAC®-CF PLUS

## Powdered Activated Carbon



CALGON CARBON CORPORATION

### Description

FLUEPAC®-CF PLUS is a powdered activated carbon specially formulated with a proprietary ingredient to enhance mercury capture in flue gas treatment applications. FLUEPAC® CF PLUS is specially manufactured to provide effective mercury removal while not adversely impacting the air retention properties of the resultant fly ash.

### Specifications

Moisture, as packed by Weight	12% (max)
Mean Particle Diameter	16.0 mm (max)
Foam Index (CCC TM99)	30 drops (max)

### Typical Properties

Bulk Density	0.5-0.8 g/ml
Ignition Temperature	>450°C
Mean Particle Diameter	12-16 µm
Particle Size Distribution	
< 0.25 µm	10%
< 4.4 µm	25%
< 9.1 µm	50%
< 18 µm	75%
< 30 µm	90%

### Added Benefits

Existing combustion or incineration systems can be quickly and inexpensively retrofitted to permit the addition of FLUEPAC®-CF PLUS powdered activated carbon. Operation is simple, reliable, and cost-effective. Utility requirements are low.

### Features

Consistently low foam index
Large number of high energy adsorption pores
Good transport pore structure
Completely devolatilized bituminous coal-based material

### Applications

FLUEPAC®-CF PLUS is specially designed to enhance mercury capture in flue gas streams while providing the added benefit of continued fly ash sales revenue. FLUEPAC®-CF PLUS is injected directly into the flue gas stream and easily removed by existing particulate control devices.

FLUEPAC®-CF PLUS has been proven to be particularly effective in applications where there are low chlorine levels in the flue gas resulting in the mercury species in the flue gas being predominantly elemental mercury (such as coal-fired boilers burning PRB coals). Elemental mercury is much more difficult to remove with standard activated carbons.

### Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

### Benefits

No negative effect on air retention properties and continued fly ash sales revenue recognition.
High adsorption capacity for many pollutants. Effluent mercury levels can be reduced by over 95%.
Rapid adsorption kinetics lead to low required contact times.
Product has a high ignition temperature which permits use over a wide temperature range. Safe bulk storage.



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Making Water and Air Safer and Cleaner

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