

FLUEPAC®-CF

Powdered Activated Carbon



CALGON CARBON CORPORATION

Description

FLUEPAC®-CF is a powdered activated carbon specifically for use in flue gas treatment applications. It is specially manufactured to provide effective mercury removal performance while not adversely affecting the air retention properties of the resultant fly ash.

Specifications

Moisture, as packed by Weight	8% (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 powdered activated carbon. Operation is simple, reliable, and cost-effective. Utility requirements are low.

Applications

Powdered Activated Carbon (PAC) injection is currently recognized as the Best Available Control Technology (BACT) by the EPA for mercury removal in flue gas. FLUEPAC®-CF is a specially designed activated carbon ideally suited for the cost-effective removal of mercury from flue gas while providing the added benefit of continued fly ash sales revenue. Removal of FLUEPAC®-CF is easily accomplished via the use of the existing particulate matter device and can typically be sold or landfilled with the ash as non-hazardous. Removal efficiencies depend on contaminant concentration, temperature, and available contact time. FLUEPAC®-CF is a completely devolatilized activated carbon, its use results in consistent low level flue gas mercury emissions over a wide temperature range.

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.

Features

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

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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