

# FLUEPAC® D

Powdered Activated Carbon

## Applications



Flue Gas



Environmental  
Air

## Description

Fluepac D is a standard powdered activated carbon (PAC) product. The inherited surface area and pore volume of the base material make Fluepac D very effective in removing many flue gas contaminants.

PAC injection is currently recognized as the Best Available Control Technology (BACT) by the EPA for mercury removal from flue gas. By injecting Calgon Carbon's Fluepac powdered products directly into the flue gas stream, many contaminants such as mercury, dioxins, and furans can be captured. Existing combustion or incineration systems can be quickly and inexpensively retrofitted to permit the addition of Calgon Carbon's Fluepac product line. This results in a treatment process that is simple to implement, reliable, and cost effective. Removal of the Fluepac powdered activated carbon is easily accomplished using existing particulate matter devices and can be landfilled with ash as non-hazardous material.

Although removal efficiencies depend on contaminant concentration, temperature, and contact time, mercury levels of 0.5  $\mu\text{g}/\text{Nm}^3$  and dioxin levels of 0.01  $\mu\text{g}/\text{Nm}^3$  have been demonstrated in flue gas treated with Fluepac D. Since Calgon Carbon's Fluepac product is a devolatilized activated carbon, its use results in consistent low level flue gas emissions over a wide range of temperatures. Some typical mercury and dioxin control applications for Calgon Carbon's Fluepac powder product include:

- Municipal waste combustors
- Hazardous waste combustors
- Hospital waste incinerators

## Features / Benefits

- Large number of high energy adsorption pores
- Good transport pore structure
- Excellent flowability and minimal volatile content
- 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

## Specifications

### Fluepac D

Iodine, mg/g	600 (min)
Moisture, as packed by Weight	12% (max)
Sieve Size US Mesh, by wt	
<100 US Mesh	99% (min)
<325 US Mesh	95% (min)

## Safety Message

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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