

# FLUEPAC® MC

Powdered Activated Carbon

## Applications



Flue Gas



Environmental  
Air

## Description

Fluepac MC is a powdered activated carbon product produced specifically for use in flue gas treatment applications. Its surface area and pore volume make it very effective in removing many flue gas contaminants.

Powdered activated carbon (PAC) injection is currently recognized as the Best Available Control Technology (BACT) by the EPA for mercury removal from flue gas. Fluepac MC is a specially designed activated carbon ideally suited for the cost-effective removal of any contaminants, such as mercury, dioxins, and furans from flue gas. Existing combustion or incineration systems can be quickly and inexpensively retrofitted to permit the addition of Fluepac MC powdered activated carbon. Operation is simple, reliable, and cost-effective. Removal of Fluepac MC is easily accomplished via the use of the existing particulate matter device and can typically be landfilled with the ash as non-hazardous material. In addition, this product has proven to be concrete-friendly, allowing some customers to continue or recapture the sale of activated carbon laden fly ash. Although removal efficiencies depend on contaminant concentration, temperature, and available contact time, mercury levels of 0.5 µg/Nm<sup>3</sup> and dioxin levels of 0.01 µg/Nm<sup>3</sup> have been demonstrated in flue gas treated with Fluepac MC. Since Fluepac C is a devolatilized activated carbon product, use of Fluepac MC results in consistent low level flue gas emissions over a wide temperature range.

Some typical mercury and dioxin control applications for Fluepac MC include:

- Coal-fired power plants
- Cement kilns
- Industrial boilers
- Municipal waste combustors
- Hazardous waste combustors
- Hospital waste incinerators

## Features / Benefits

- Large number of high energy adsorption pores
- Good transport pore structure
- Concrete-friendly product
- 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 MC

Moisture, as packed by Weight	8% (max)
Screen Size by weight, U.S. Sieve Series	
<100 US Mesh	100% (min)
<325 US Mesh	95% (min)

## Typical Properties\*

### Fluepac MC

Apparent Density (tamped)	0.4–0.8 g/cc
Ignition Temperature	>350°C

\*For general information only, not to be used as purchase specifications.

## 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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