

FLUEPAC®-MC PLUS

Powdered Activated Carbon



Description

FLUEPAC®-MC PLUS is a powdered activated carbon produced from bituminous coal impregnated with a proprietary ingredient to enhance mercury capture in flue gas treatment applications.

Specifications

Moisture, as packed by Weight	12% (max)
Sieve Size by volume (laser analysis)	
< 100 US Mesh	100% (min)
< 325 US Mesh	95% (min)

Typical Properties

Iodine No.	400-600 mg/g
Apparent Density	0.5-0.8 g/cc
Ignition Temperature	>400°C

Added Benefits

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

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.

FLUEPAC® Patents pending.

Applications

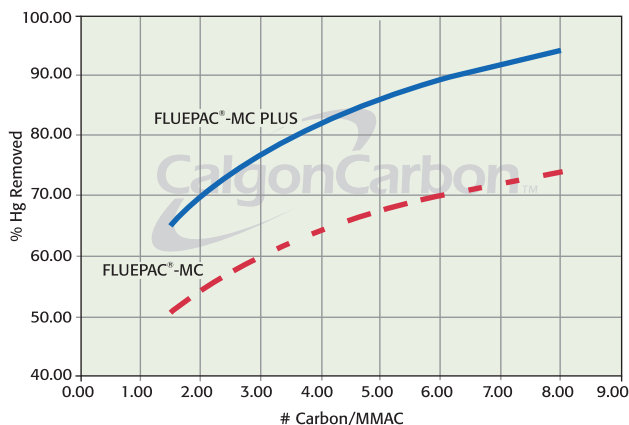
FLUEPAC®-MC PLUS is specially designed to enhance mercury capture in flue gas streams. FLUEPAC®-MC PLUS is injected directly into the flue gas stream and easily removed by existing particulate control devices. FLUEPAC®-MC PLUS can be landfilled with the ash as a non-hazardous material.

FLUEPAC®-MC 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 unimpregnated activated carbons like FLUEPAC®-MC. The kind of performance improvement that can be expected by using FLUEPAC®-MC PLUS is illustrated in Figure 1. The data used to generate Figure 1 was taken from two different utilities in the western U.S. that burn PRB coals. As shown, the FLUEPAC®-MC PLUS product greatly reduces the amount of carbon needed to achieve efficiencies above 70%.

Some typical mercury and dioxin control applications for FLUEPAC®-MC PLUS include:

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

Figure 1. Typical Performance Improvement Associated with FLUEPAC®-MC PLUS



Features

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

Benefits

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.



Making Water and Air Safer and Cleaner

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