FLUEPAC®-MC
Powdered Activated Carbon

Description

FLUEPAC®-MC is a powdered activated carbon produced from bituminous coal specifically for use in flue gas treatment applications. Its surface area and pore volume make it very effective in removing many flue gas contaminants.

Specifications

Moisture, as packed by Weight	8% (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 (tamped)	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 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.

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®-MC is a specially designed activated carbon ideally suited for the cost-effective removal of mercury, dioxins, and furans from flue gas. By injecting FLUEPAC®-MC directly into the flue gas stream, many contaminants can be captured. 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. Although removal efficiencies depend on contaminant concentration, temperature, and available contact time, mercury levels in treated flue gas of 0.5μg/Nm³ and dioxin levels of 0.01 μg/Nm³ have been demonstrated. Since FLUEPAC®-MC is a completely devolatilized bituminous coal-based product, its use results in consistent low level flue gas emissions over a wide temperature range.

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

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

Features	Benefits
Large number of high energy adsorption pores	High adsorption capacity for many pollutants. Effluent mercury levels can be reduced by over 95%.
Good transport pore structure	Rapid adsorption kinetics lead to low required contact times.
Completely devolatilized bituminous coal-based material	Product has a high ignition temperature which permits use over a wide temperature range. Safe bulk storage.

Making Water and Air Safer and Cleaner

Calgon Carbon Corporation
P.O. Box 717
Pgh, PA USA 15230-0717
1-800-422-7266
Tel: 1-412-787-6700
Fx: 1-412-787-6713

Chemviron Carbon
European Operations of
Calgon Carbon Corporation
Zoning Industriel C de Feluy
B-7181 Feluy, Belgium
Tel: + 32 (0) 64 51 18 11
Fx: + 32 (0) 64 54 15 91

Calgon Carbon Asia PTE LTD
9 Temasek Boulevard
#08-01A Suntec Tower Two
Singapore 038989
Tel: + 65 6 221 3500
Fx: + 65 6 221 3554

Your local representative