FLUEPAC®-ST
Powdered Activated Carbon

Description

FLUEPAC®-ST is a powdered activated carbon produced from bituminous coal specially formulated to enhance mercury capture in flue gas treatment applications with elevated levels of sulfur trioxide (SO_3).

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 (tamped)	0.5-0.8 g/cc
Ignition Temperature	>400°C

Applications

FLUEPAC®-ST has been proven to be particularly effective in applications where there are elevated SO_3 levels in the flue gas (such as coal-fired boilers burning high sulfur coals). In the presence of SO_3, mercury is much more difficult to remove with standard activated carbons like FLUEPAC®-MC Plus. The performance improvement that can be expected by using FLUEPAC®-ST is illustrated in figures 1 and 2. The data used to generate these figures was taken from two different utilities in the eastern U.S. As shown, the FLUEPAC®-ST product greatly reduces the amount of carbon needed to achieve efficiencies above 70%.

FLUEPAC®-ST is injected directly into the flue gas stream and easily removed by existing particulate control devices. FLUEPAC®-ST can be landfilled with the ash as a non-hazardous material.

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.

Figure 1: Performance Improvements Associated with Calgon Carbon's Sulfur Tolerant Product (FLUEPAC®-ST)

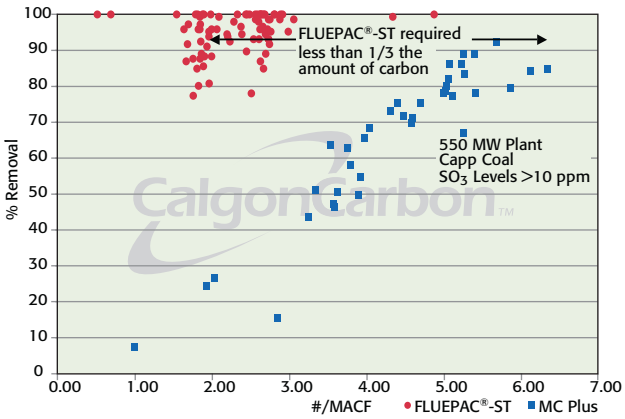
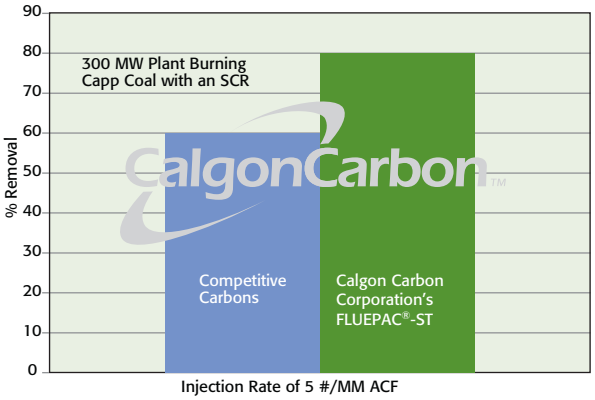


Figure 2: Calgon Carbon's Sulfur Tolerant Product Performance at High SO_3 levels (>20 ppm)



FLUEPAC® Patents pending.

Features / Benefits

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

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