

FLUEPAC™-A

Powdered Reactivated Carbon



Description

FLUEPAC™-A is a powdered reactivated carbon produced from bituminous coal specifically for use in flue gas treatment applications. FLUEPAC™-A has a high effective surface area and a large pore volume making it very effective in removing many flue gas contaminants.

Specifications

Iodine Number	800 mg/g (min)
Ash, by weight	16% (max)
Moisture, as packed by weight	8% (max)
Screen Size by weight, U.S. Sieve Series	
Through 100 mesh	100% (min)
Through 325 mesh	90% (min)

Added Benefits

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

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™-A is ideally suited for the removal of mercury, dioxins, furans, and other VOC compounds from flue gas. FLUEPAC™-A is easily captured with the fly ash via the use of existing particulate matter removal equipment 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 0.5 µg/Nm³ have been demonstrated. Since FLUEPAC™-A is a completely devolatilized bituminous coal-based product, its use results in consistent low-level flue gas emissions over a wide temperature range. FLUEPAC™-A also has a high effective surface area (I₂ no. over 750) which makes it particularly effective for the removal of VOCs. Typical bulk density is 25-30 lb./ft³.

Some typical mercury, dioxin, and VOC control applications for FLUEPAC™-A include:

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

Features

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

Benefits

High adsorption capacity for many pollutants. Effluent mercury levels of 0.5 µg/Nm ³ and dioxin levels of 0.01 µg/Nm ³ can be achieved.
Ideal when VOCs are also a problem.
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.

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™ -A powdered reactivated carbon is not to be used in potable or food grade applications.



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