

FLUEPAC® LMC+

Powdered Activated Carbon

Applications



Flue Gas



Environmental
Air

Description

Fluepac LMC+ is a brominated powdered activated carbon product designed to enhance mercury capture in flue gas treatment applications.

Existing combustion or incineration systems can be quickly and inexpensively retrofitted to permit the addition of Fluepac LMC+ powdered activated carbon. This results in a treatment process that is simple to implement, reliable, and cost effective. Fluepac LMC+ is injected directly into the flue gas stream and is easily removed by existing particulate control devices. Fluepac LMC+ can also be landfilled with the ash as a 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.

Fluepac LMC+ has been proven to be particularly effective for utilities burning Powder River Basin (PRB) coals. Utilities burning these low sulfur, low chlorine content coals typically have flue gas streams containing mercury in its elemental form. Fluepac LMC+ can be used to promote the oxidation of mercury without the use of front end boiler additives. Fluepac LMC+ provides mercury capture and performance benefits versus a standard nonbrominated product and allows for a single injection for mercury control compared to using other means for mercury oxidation.

Some typical mercury and dioxin control applications for Fluepac LMC+ 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 LMC+

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 LMC+

Iodine No.	400–600 mg/g
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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