

FLUEPAC® SPR MAXX

Powdered Activated Carbon

Applications



Flue Gas



Environmental Air

Description

Fluepac SPR MAXX is a specially formulated non-brominated product that is produced to enhance mercury capture in flue gas treatment applications. Fluepac SPR MAXX performs exceptionally well with boiler front end coal additives such as calcium bromide and has demonstrated greater than 50% reduction in mercury treatment costs when compared to standard products. Fluepac SPR MAXX has also been shown to provide enhanced removal capability in baghouse applications.

An example of Fluepac SPR MAXX performance advantage is shown in Figure 1. This example is for a 600 MW powder river basin (PRB) coal-fired unit with a bag house and post air preheater (APH) injection. The Fluepac SPR MAXX demonstrates far superior performance over standard brominated and non brominated products achieving a 90% reduction in mercury at substantially lower injection rates.

Many contaminants, especially oxidized mercury, can be captured by injecting Fluepac SPR MAXX directly into the flue gas stream. Fluepac SPR MAXX is designed to consistently deliver low level flue gas emissions over a wide range of temperatures. Fluepac SPR MAXX can be effectively removed with fly ash in existing particulate capture devices.

Some typical mercury and control applications for Fluepac SPR MAXX include:

- Coal-fired power plants
- Cement kilns
- Industrial boilers
- Various waste incinerators

Features / Benefits

- Mercury emission levels can be reduced by over 95%
- Can be used over a wide range of temperatures
- Concrete-friendly product
- Low carbon injection rates to further reduce costs through:
 - 1) Fewer deliveries required
 - 2) Smaller injection systems
 - 3) Lower system wear and tear
 - 4) Improved on-site logistics
 - 5) The reduced ratio of carbon to fly ash and the product's inherent concrete friendliness preserves the fly ash suitability for sale or non-hazardous disposal

Specifications

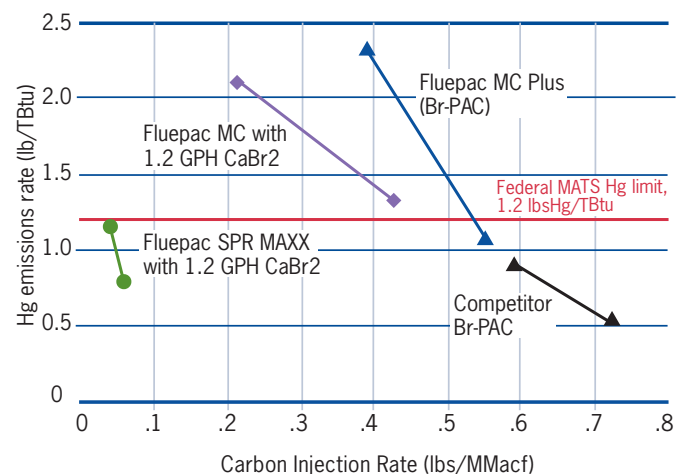
	Fluepac SPR MAXX
Moisture, as packed by Weight	12% (max)
Sieve Size by volume (laser analysis)	
<100 US Mesh	100% (min)
<325 US Mesh	95% (min)

Typical Properties*

	Fluepac SPR MAXX
Apparent Density (tamped)	0.4–0.8 g/cc
Ignition Temperature	>350°C

*For general information only, not to be used as purchase specifications.

Figure 1: 600 MW PRB-fired Unit with Baghouse, post-APH Carbon Injection



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.

1.800.4CARBON calgoncarbon.com

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DS-FLUESPRMAXX15-EIN-E1