

C-PAC™ Concrete-Friendly™ Mercury Sorbent

DESCRIPTION

C-PAC is a Concrete-Friendly high performance brominated powdered activated carbon.

APPLICATIONS

C-PAC is Concrete-Friendly and manufactured for the removal of both elemental and oxidized mercury in flue gases while not adversely affecting the ability of the resultant fly ash or cement kiln dust to be used as a substitute for cement in concretes.

FEATURES

Concrete-Friendly C-PAC sorbent is made for generating stations that sell their fly ash to the ready mix concrete industry. C-PAC offers exceptional performance as a mercury control sorbent and has minimal effect on the air-entrainment properties of the resultant fly ash. The result is lower mercury emissions and continued fly ash sales revenue.

Excellent Mercury Capture Performance: Concrete-Friendly C-PAC sorbents, based on our patented B-PAC™ bromination process, provide mercury capture rates as high as 90% and greater.

Excellent Concrete Properties: Concrete made with fly ash containing C-PAC material exhibits excellent short and long term strength properties. In addition, mercury captured by the C-PAC material does not leach off during or after the concrete manufacturing process.

New research in cement kiln mercury control suggests that because of C-PAC's Concrete-Friendly properties, C-PAC can be used to control mercury emissions from existing cement plants without the addition of a costly polishing baghouse filter. C-PAC can be injected into the kiln baghouse to capture the gaseous mercury and a small percentage of the dust with C-PAC can be shuttled directly to the finish mills.

The Concrete-Friendly properties of C-PAC ensure that the dust will not have a negative affect on the final cement product because, mercury is captured by C-PAC and removed from the plant without wasting cement kiln dust.

TYPICAL PROPERTIES*

Acid Blue 80 Index, mg/g	<15
Bromine, (wt %)	8
Moisture, % as packed	8
Ash, (wt %)	<12
Iodine Number, mg/g	>500
Tapped Bulk Density, g/ml	0.6
Ignition Temperature, °C	>400
Particle size, percent passing through 325 mesh	95

*These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from sales, customer service or customer technical service.

**SAFETY AND HANDLING
INFORMATION**

Wet activated carbon removes oxygen from air. In a partially closed, closed or confined space, oxygen levels may become depleted. If workers are to enter a vessel containing activated carbon, all applicable low-oxygen work rules and procedures should be followed, including all applicable Federal and State requirements.

**CHEMICAL REGISTRATION
NUMBERS**

CAS: 7440-44-0

RESPONSIBLE CARE

Albemarle is committed to the safety and well-being of our customers, employees and the community at large. Safety Data Sheets (SDS) are available upon request.



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