



General Information

EZSORB® is a byproduct made from circulating fluidized bed (CFB) boilers located at the JEA Northside Generating Station (NGS). These CFB's are fueled by a combination of coal and petroleum coke. Limestone is added during the power generation process to create thermal mass and to aid in the removal of sulfurous gas emissions. At the conclusion of this generation process, two dry byproducts are generated, fly ash and bed ash. These dry ash byproducts are EZSORB®.

Byproduct from a solid fuel CFB plant, such as the JEA NGS facility, is distinct from that of conventionally fired boilers (e.g., pulverized coal, fuel oil) because it is composed primarily of lime and gypsum (calcium oxides and calcium sulfate, respectively). Less than 10% by weight of CFB byproduct actually represents what would generally be termed "ash" from combustion of the fossil fuels. Over 90% by weight of CFB byproduct is a result of the addition of the limestone to the boilers. Thus, the byproduct from a CFB plant is not an "ash" in the typical sense, and is not solely the remnant material from conventionally-fired boilers.

Environmental and Safety Considerations

Prior to use, please review the Material Safety Data Sheet (MSDS). The MSDS can be obtained by contacting (904) 665-4952.

Properties

The EZSORB® **bed** ash has the following properties:

- Color: light brown or tan
- Typical dry density – 95-105 lb/cu ft.
- Typical available lime content at loading – 24 to 32 percent**
- Fine to coarse granular material
- Exothermic upon contact with water

**Higher available lime percentages can be achieved by mechanically altering (crushing) the material.

The EZSORB® fly ash has the following properties:

- Color: light to dark grey
- Typical dry density – 45-55 lb/cu ft.
- Very fine granular material

Availability of EZSorb:

EZSORB® is available for load-out by truck or railcar at the Northside Generating Station. JEA and FDOT require that the product be protected from the elements and contained in the vehicle throughout the shipment process.

Product Applications

Since EZSORB® is a byproduct of electric generation, it comes at a low cost compared to existing alternatives. The following are potential applications for EZSORB®:

- Additive for stabilization of soils and construction fill material
- Solidification and fixation of sludge materials
- Acid waste neutralization
- Soil additive for liming
- Additive to cement and/or other raw construction materials

Disclaimer:

All information, advice, and other material concerning the products, services, processes, or uses are provided with no warranty of any kind. Nothing should be construed as a recommendation or inducement to infringe any patent. No assumption should be made that all safety or environmental protection measures are indicated or that other measures may not be required. All necessary regulatory agencies should be notified when using these products.