



Graver Technologies

# ECOSORB®

MULTI-FUNCTIONAL PURIFICATION MEDIA

## Dust Free Media for Efficient Sugar Processing

### ECOSORB Benefits

ECOSORB is a proprietary adsorbent media that effectively replaces powdered activated carbon (PAC) and diatomaceous earth (DE) in batch treatment processes with the following benefits:

- ▶ Improved clarity
- ▶ Improved purity
- ▶ Reduced costs
- ▶ Maximized adsorbent efficiency
- ▶ Improved worker safety
- ▶ Clean environment
- ▶ Reduced solid waste
- ▶ Easily sluiced filters
- ▶ Lengthened cycle times
- ▶ Simplified operations

Melted refined cane sugar is currently used by many bottlers to sweeten soft drinks. A large cost savings can be achieved by using ECOSORB adsorbent media to upgrade lower cost standard grade sugar to refined quality specifications. The amount of savings depend on the price "spread" between refined and standard grades and will vary with market price fluctuations.

ECOSORB is currently being used commercially to economically remove color and odor from standard sugar to meet soft drink specifications.

ECOSORB adsorbent is dust free so the general environment remains clean and sensitive electronic equipment is protected from carbon particulates. In addition operating personnel are not exposed to the deleterious health effects of dust. ECOSORB exhibits a low pressure drop and is easily sluiced off the filters. It can be quickly and simply implemented in any process that uses powdered carbon and/or diatomaceous earth.



### ECOSORB Application

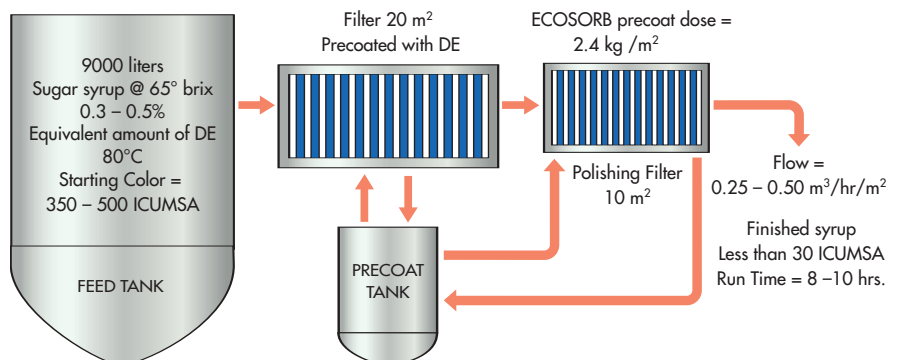
The ECOSORB media can be used as either a batch treat or as a precoat in conjunction with powdered activated carbon. Both processes are used commercially depending on the color of the incoming sugar.

With starting colors less than 150 ICUMSA an ECOSORB batch dose of 0.25% will provide less than 30 ICUMSA sugar syrup desired for most bottling operations. Simply adding the

ECOSORB to the batch tank and stirring for 1.0 – 1.5 hours prior to filtration will provide the desired quality. The ECOSORB media will wet out immediately thereby improving the batch adsorption. No DE has to be added with the ECOSORB as it is easily filtered.

When starting colors are greater than 150 ICUMSA a PAC/ECOSORB combination works most effectively. .

### Typical Precoat Application with ECOSORB Adsorbent Media





## Manufacturing/Regulatory

ECOSORB products are manufactured in our state-of-the-art manufacturing facility in Glasgow, DE. Graver Technologies follows GMP procedures and is ISO 9001 certified. All food grade ECOSORB products are Kosher approved and are in compliance with the appropriate sections of the US Code of Federal Regulations (CFR).

## Operating Conditions

Temperature: 5–90°C

pH: 2–12

To request a standard or custom sample or to discuss your application with a technical representative, please call us:

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