

# Technical Data Sheet



## PRODUCT: FRS-3G

### DESCRIPTION

Carbo-UA product **FRS-3G** is a patent pending vegetable-based carbonaceous adsorbent specifically designed for superior filtration of sugar liquors/syrups in the refinery.

It is formulated for use as a body-feed or batch contact addition prior to Flotation Clarification, Carbonatation, or as a stand-alone Clarifying agent to provide substantially improved production efficiency.

CarboUA **FRS-3G** is the new development of the FRS-3 product line, designed with special mechanical properties and high adsorption activity to allow an enhanced filtration of high starches/gum/polysaccharides sugar syrups.

### APPLICATION METHOD

Carbo-UA **FRS-3G** is best added at the filter supply tank after the last stage of saturation for Carbonatation process. Additionally, CarboUA product **FRS-3G** is extremely efficient in removal of impurities as starch, dextrin, gums, polysaccharides, among others that causes poor filterability. The removal of these impurities allows an increase in operation Brix and/or flow-rate through filtration/I.E.R./G.A.C achieving improved total process efficiency.

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General specifications are typical values for this product. Customized product specifications on individual customer's feed stocks can be tailored to insure performance consistency on an individual customer basis. Since the use of our products by others is beyond our control, no guarantee, expressed or implied, is made and no responsibility assumed for the use of this product and product information, or the results obtained there from.

Version Date: Jun 2011 // Previous Version: Jun 2009

### GENERAL SPECIFICATIONS

Parameter	Value
<b>Decolourisation Capacity</b>	350 Units min. (CarboUA Method S-17)
<b>Δ pH</b>	± 0.5 max. (CarboUA Method S-18)
<b>Density</b>	0.3 – 0.6 kg/L (as packed in 20 kg bags)
<b>Moisture</b>	10 – 20 % as packed

### FOOD GRADE CERTIFICATIONS

**Carbo-UA FRS-3G** meets the requirements of the US FDA for sugar processing under certain conditions, and all applicable raw materials meet the requirements of the *Food Chemical Codex*, fourth edition.

### KOSHER CERTIFICATION

**Carbo-UA FRS-3G product** is Kosher approved.