



Product Data Sheet:

Sugar Processing and Purification: Clarification in Sugar Refineries

Product: FRS-W2

Carbo-UA product **FRS-W2** is a patent-pending powder phosphoric acid derivative with proprietary sulphonyl acid group activity, specifically designed for outstanding clarification of sugar liquors/syrups. 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 and product quality via its ability to remove a wide array of impurities such as colour, ash, and turbidity constituents. Carbo-UA **FRS-W2** is best added at or near the Melt Station, with 5 - 10 minutes contact time prior to the existing Flotation or Carbonatation process. CarboUA **FRS-W2** complexes with the lime addition of phosphatation or Carbonatation, and therefore does not require a separate filtration stage. The unique properties of **FRS-W2** can enable a reduction in un-reacted lime to potentially reduce scaling problems associated with calcium, while maintaining low sulfur levels in the refined sugar when properly dosed. Additionally, **FRS-W2** has been formulated to reduce the colour increase normally associated with evaporative processes such as those that occur in the pan boiling process.

General Specifications

Water Insoluble substances	0.10% max
pH:	4 - 6
Iron:	0.003% max
Arsenic	3 ppm max
Heavy metals (as Pb):	20 ppm max

Food Grade Certifications

Carbo-UA FRS-W2 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 product FRS-W2 is Kosher approved.

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Customized product specifications on individual customer's feedstocks can be tailored to insure performance consistency on an individual customer basis.

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