



FRS-W: Phosphatation Sugar Refinery Decolorant

FRS-W is a high-performance adsorbent in white powder form designed for superior clarification in **phosphatation sugar refinery**.

Functionality:

- It is formulated to use as an additive in powder or slurry form in the Melter.
- Improves sugar refinery yield.
- Improves clarifiers.
- Reduces lime consumption.
- Reduces phosphoric acid consumption.
- Easy to control and automatize.
- Improves refined sugar quality.
- Reduces sugar beverage floc content.

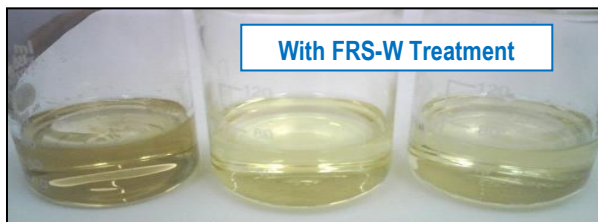
Data Report:

Phosphatation Sugar Refineries:

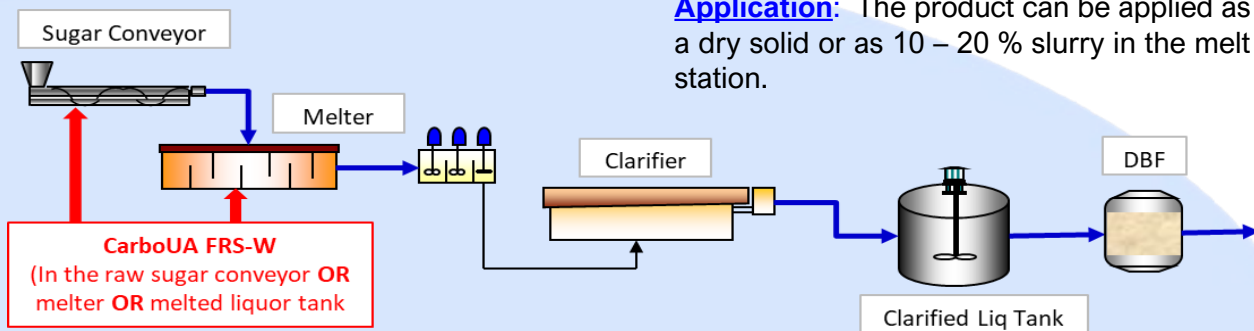
Parameters	Regular Process	FRS-W Process
Phosphoric Acid (ppm)	578	488
Decolorant (ppm)	153	71
Powder Carbon (ppm)	1400	0
FRS-W (ppm)	-	250
Sugar Beverage floc	0.019	0.014
Sugar color (IU)	39	25
Clarifier Color Removal (%)	44	65
Syrup/FL ratio	60/40	50/50
Plant Recovery Increase (%)	-	6

Projected Benefits:

Parameter	Effect
Color Removal	(+) 20 – 40 %
Turbidity (Juice) Reduction	(-) 30 – 40 %
Lime Consumption Reduction	(-) 5 – 20 %
Phosphoric Acid Consumption Reduction	(-) 30 – 50 %



Process Diagram:



Application: The product can be applied as a dry solid or as 10 – 20 % slurry in the melt station.