

PRODUCT TECHNICAL BROCHURE

\*All CarboUA products meet FDA/FCC reauirements and all food arade Halal and Kosher approved.



المجلس الإسلامي الأمريكي للغذاء و التغذية HE ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA شمادة حلال FANCA HALAL PRODUCT CERTIFICATE

Color

Removal

# **HPD & HPA Decolorization: Phosphatation Sugar Refinery**

HPD (High Performance Decolorant) and HPA (High Performance Adsorbent) are patented products engineered and designed for superior decolorization as an alternative of IER and GAC in phosphatation sugar refinery.

#### **Functionality:**

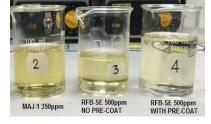
- HPD improved the melt liquor by 25-35 %.
- HPA improves liquor's quality, filterability and impurities removal by 70-80%.
- Reduces chemical consumption by 50%.
- Better filtration due to better flocculation.
- Removal of beverage floc.
- Energy savings.
- No liquid effluent discharges.
- Low centrifugal washing water consumption.
- Operates at higher brix.
- Increases over-all factory yield.

Ī	<u>Feasibility study</u> :							
Phosphatation Refinery, 1000 MTD								
	Melt	HPD	HPD					
	Liquor	(350 ppm)	(1000					
	(IU)		ppm)					

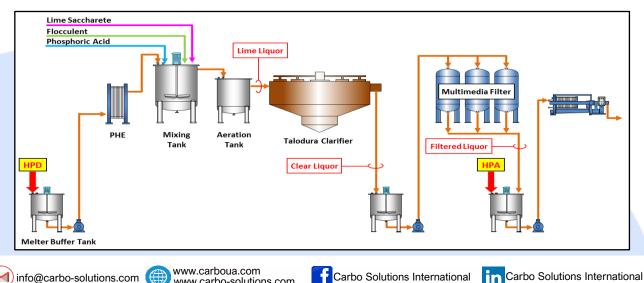
(IU)		ppm)	
833	586	158	81%
758	495	126	83 %
806	435	140	83 %

### **Application**:

1<sup>st</sup> Step: HPD added to the melt liquor.



#### 2<sup>nd</sup> Step: HPA added to the clear liquor (after multimedia filters)



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## **Process Diagram:**