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Akrow
CHEMICAL

Specialty Chemical Technologies



Sugar Industry



AKRAW QUÍMICA S.A.S. designs **chemical treatment** programs tailored to the specific requirements of the sugar industry.



Microbiological control in sugar mills is focused on reducing sucrose losses during milling. By applying **biocides** based on glutaraldehyde, dithiocarbamates and quaternary ammonium compounds, we effectively control microorganisms such as *Leuconostoc*.



For juice, syrup, filtrate and liquor clarification, we perform turbidity characterization at the inlet and outlet of the process equipment, complemented by a process flow diagram. This evaluation allows us to identify improvement opportunities and design laboratory jar tests to select the optimum **flocculant**.



High milling rates and longer operating cycles between cleaning shutdowns are achieved through **antiscalants** that reduce scale formation in heaters and evaporators.



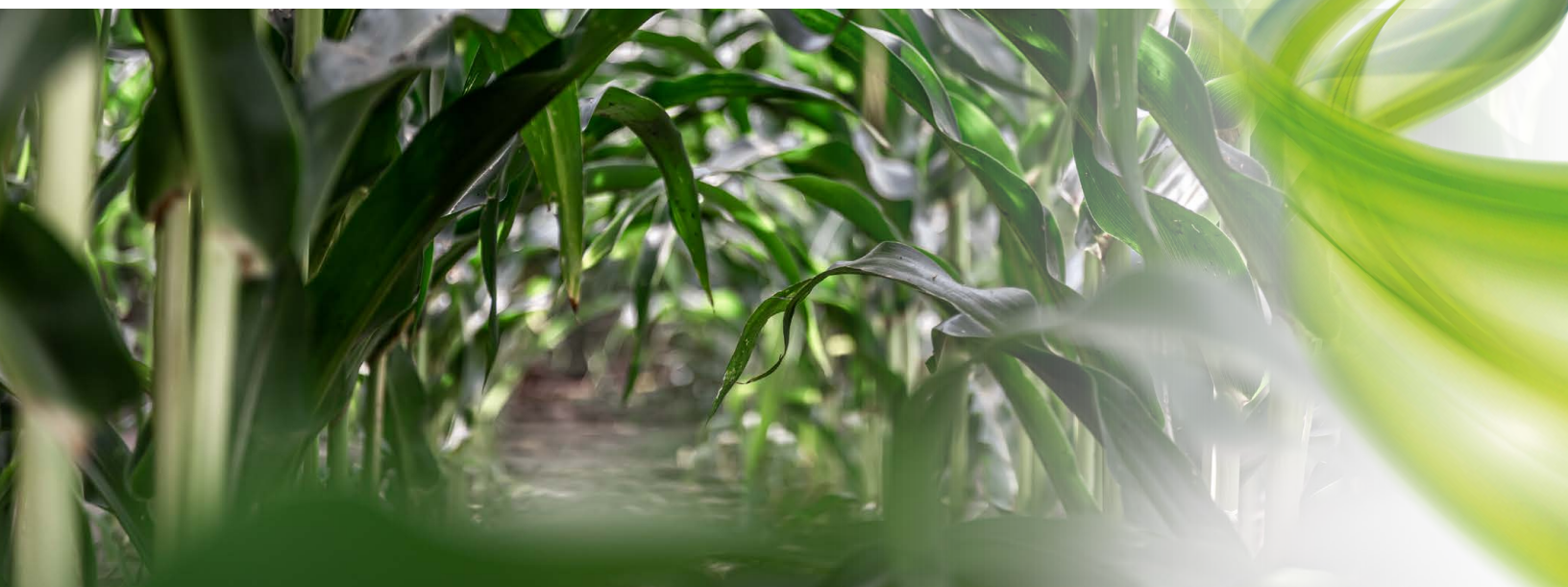
To reduce residence time in vacuum pans, we apply **surface-active agents** that lower massecuite viscosity.



Our expertise in **organic and inorganic decolorizing** agents allows us to optimize chemical consumption while maximizing color removal efficiency during sugar refining.



During molasses fermentation for bioethanol production, maximum alcohol yield is achieved through strict microbiological and foam control.



**Discover our Chemical Technologies for
the Sugar and Bioethanol Industries**

PRODUCT NAME / DESCRIPTION	AKRAW REFERENCE
Dithiocarbamate Biocides.	Akraw® 15100
Glutaraldehyde Biocides	Akraw® 15100
Antifoams and Dispersants.	Akraw® 15200
Antiscalants and Dispersants for Heaters, Evaporators and Cooling	Akraw® 15300
Phosphate Treatment Chemicals.	Akraw® 15400
Activated Carbon and Filter Aids.	Akraw® 15500
Organic Decolorizing Agents and Oxidants for Sugar	Akraw® 15600
Flocculants for Juice, Syrup, Filtrate and Liquor.	Akraw® 15700
Viscosity Reducers for Massequite.	Akraw® 15800
Caramel Color Type III.	Akraw® 15900



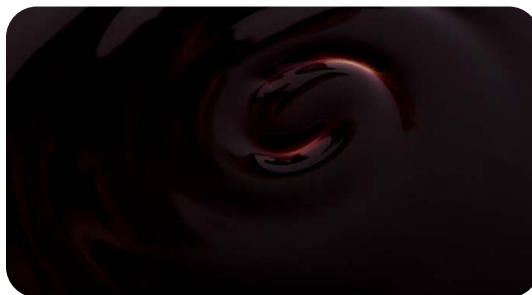
Caramel Color Type III

AKRAW Type III Caramel Color is an ammonia-process caramel color designed to deliver consistent brown shades, excellent stability and reliable performance in sugar processing applications.



Key Benefits

- ✓ Consistent color intensity.
- ✓ Excellent thermal stability.
- ✓ Wide pH stability.
- ✓ Easy handling and dosing.
- ✓ Reliable batch-to-batch performance.
- ✓ Technical support for application optimization.



Typical Applications

- Refined sugar.
- Brown and specialty sugars.
- Food and beverage processing.
- Industrial applications requiring stable brown coloration.

AKRAW Enzymes and Applications

Enzymes are a natural and highly efficient solution for **optimizing processes in the sugar and bioethanol industries**. They help improve juice quality, reduce sucrose losses, and increase fermentation efficiency, delivering both technical and economic benefits.

PRODUCT NAME	APPLICATIONS
AKRAW Dextranase	● Reduces viscosity in juice and molasses. ● Improves filtration and evaporation efficiency. ● Increases sucrose recovery. ● Reduces losses caused by dextrans.
AKRAW Alpha-Amylase	● Liquefies starch in juice and molasses. ● Reduces viscosity during crystallization processes. ● Improves fermentation and ethanol conversion. ● Increases the overall energy efficiency of the process.

Toray Membranes and Applications

We are representatives of Toray, a global leader in reverse osmosis and filtration membranes. Toray technology provides reliable and sustainable solutions for industrial water treatment, ensuring quality, efficiency, and water resource reuse.

PRODUCT NAME	APPLICATIONS
RO (Reverse Osmosis) & NF (Nanofiltration) Membranes – Romembra™	● Seawater and brackish water desalination. ● Ultrapure water production. ● Removal of contaminants. ● Wastewater reuse.
PAN Hollow Fiber UF (Ultrafiltration) Membranes – Torayfil™	● Industrial process water production. ● Drinking water production. ● Wastewater reuse.
PVDF Hollow Fiber MF (Microfiltration) Membranes – Torayfil-FTM	● Drinking water production. ● Industrial process water production. ● Seawater desalination pretreatment. ● Wastewater reuse.
Flat-Sheet PVDF MF (Microfiltration) Membranes for MBR (Membrane Bioreactor)	● Municipal and industrial wastewater treatment. ● Municipal and industrial wastewater reuse.



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