JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

ANTI-STATIC FIBER CONDITIONER X5

Concentrated Antistatic Conditioner for Cotton Ginning

General Description

ANTI-STATIC FIBER CONDITIONER X5 is a concentrated, water-based fiber conditioner formulated to help minimize static buildup during cotton handling and ginning. The product is diluted onsite and applied to cotton through the gin's existing liquid application system. X5 was developed at five times the nominal concentration of the original working product to reduce the volume transported and stored before dilution.

Features and Benefits

Helps control static buildup during cotton processing. The concentrated formulation allows onsite preparation of the working solution, reducing transportation volume compared with supplying the equivalent diluted product. Water dilution provides a practical means of preparing treatment solution for the gin's existing pumping and application equipment.

Typical Applications

For industrial use in cotton ginning operations where a diluted antistatic conditioner is pumped from a supply tank onto cotton as it moves through the gin. The application point and delivery system should be selected by the gin operator to provide uniform treatment under the operating conditions of the facility.

Directions for Use

As an initial dilution, mix **one part ANTI-STATIC FIBER CONDITIONER X5 with four parts clean water by volume** to prepare a working solution containing **20% concentrate**. This dilution is intended to approximate the original product strength and should be verified with the customer before routine use. For example, use **11 gallons of X5 and add water to a final volume of 55 gallons**. Charge the mixing tank with most of the required water, add the concentrate with moderate agitation, then add the remaining water and mix until uniform. Avoid excessive aeration. Apply the diluted solution uniformly to cotton using the gin's designated system. Verify dilution, application point, and delivery rate through an initial operating trial. Adjust treatment to cotton moisture, throughput, static conditions, and equipment requirements while avoiding excessive wetting. Follow the gin's established cotton moisture limits. A fixed application rate per bale or ton is not specified.

Compatibility

Use clean dilution water and verify that the prepared solution remains uniform under site conditions. Confirm compatibility with tanks, pumps, hoses, seals, and spray equipment before use. Because the formulation contains cationic conditioning agents, mixing with anionic detergents or other treatment chemicals may affect stability or performance. Test proposed mixtures before use and do not combine with strong oxidizers.

Environmental and Regulatory Information

Use the product only for its intended industrial application. Prevent spills and unused treatment solution from entering surface water, storm drains, or the ground. Collect residues and dispose of them in accordance with applicable requirements. Refer to the current Safety Data Sheet for ingredient, hazard, transport, and regulatory information.

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Physical Properties

Appearance	Opaque white to cream liquid
Odor	Mild
pH of concentrate	3.0–4.0
Specific gravity	0.98–1.01
Density Approximately	8.2–8.4 lb/gal
Water dilution	Dispersible in water; mix until uniform
Initial working dilution	1 part X5 to 4 parts water by volume

(Typical values; not a specification)

Quality Assurance

ANTI-STATIC FIBER CONDITIONER X5 is manufactured at JMN Specialties, Inc.'s Westwego, Louisiana facility under an **ISO 9001:2015 certified Quality Management System**. Controlled manufacturing procedures and established quality-control testing help ensure consistent product quality and batch-to-batch uniformity.

Availability

ANTI-STATIC FIBER CONDITIONER X5 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

Read the current Safety Data Sheet and container label before handling. Avoid contact with eyes and skin and avoid breathing spray mist. Wear chemical splash goggles and suitable chemical-resistant gloves; use additional protective clothing and face protection where splashing is possible. Provide ventilation appropriate to the application. Clean spills promptly because wetted surfaces may be slippery. Continue the facility's established grounding, bonding, dust control, and fire prevention practices when using this product. This product is intended for industrial and professional use in cotton processing operations. Store in tightly closed, labeled containers in a cool, ventilated location. Protect from freezing and excessive heat and keep away from strong oxidizers. Mix the concentrate until uniform before dilution if separation has occurred. Observe container warnings and normal precautions for industrial chemicals.

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