Technical Data Sheet ANTIFOAMZERA A20

Updated January 13, 2025

PROPERTIES

Silicone-based antifoams use silicone compounds as their active ingredient. These compounds consist of hydrophobic additives incorporated into a dimethylpolysiloxane matrix, with emulsifiers added to ensure rapid dispersion of the silicone in the medium where foam forms. Silicone compounds may be supplied as an oil or as a water-based emulsion.

These antifoams are highly effective at controlling challenging foams. They excel at removing surface foam and releasing air trapped in the medium, making them suitable for a wide range of food industry applications. Type "A" products are particularly well suited because they improve process efficiency by preventing delays and shutdowns caused by excessive foam; ensure consistent finished-product quality; improve process safety by preventing incidents such as spills; reduce operating costs and product losses; help meet hygiene standards by keeping processes clean and safe; increase production capacity by eliminating bottlenecks and delays; prevent the loss of valuable ingredients; and improve the stability and shelf life of food products.

A20 antifoam is specifically formulated for use in aqueous media, offering easy, direct application. It contains FDA-grade nonionic emulsifiers that ensure high efficiency, compatibility and durability, making it ideal for the food and pharmaceutical industries. It is also KOSHER certified, ensuring the safety of our raw materials and manufacturing process.

APPLICATIONS AND USES

- Alcohol distillation (brandy and tequila).
- Dairy products (dulce de leche, condensed milk, powdered milk and milk-based sweets).
- Fruit juices, concentrates and jams.
- Fermentation (sugarcane, panela, fruit wines, malt-based beverages and cider).
- Confectionery production (hard and soft candies, sugar cubes) and chocolate.
- Low-moisture fats and oils (butter and margarine).
- Instant soups and broths.

TECHNICAL DATA

Appearance	Viscous liquid
Color	White
Odor	Characteristic
Total solids content at 100 °C (%)	22-28

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Business Hours
9050 Pines Blvd Suite 417 Pembroke Pines FL 33024
Monday to Friday, 9:00 AM - 5:00 PM
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Viscosity (25 ± 2 °C), cP	400-4000
Dosage (ppm)	100-500
Stability (centrifugation at 1,500 rpm for 15 min)	Stable
Shaker test (10 seconds at 450 oscillations/min)	<= 0.5 cm of foam
pH	4.0-7.0

PACKAGING

- 20 kg jerrycan.
- 200 kg drum.

SAFETY AND HANDLING

- Avoid inhaling any vapors. Do not rub your eyes, nose or mouth with areas that have been in contact with the substance. Avoid prolonged skin contact. Do not eat, drink or smoke in the work area. Decontaminate personal protective equipment before reuse. Wear safety goggles, gloves, a hair covering and all other items required by Good Manufacturing Practices (GMP) to prevent product contamination.
- Keep in properly labeled, sealed containers, away from potential sources of high temperatures (ignition or heat sources), preferably in the original packaging (first-use material). Protect from direct light and store at room temperature. Do not store outdoors. Once opened, use as soon as possible.
- Stack jerrycans no more than two levels high.
- Avoid contact with eyes (see the Safety Data Sheet).
- Before using the product, consult the Safety Data Sheet and this Technical Data Sheet.

ADDITIONAL INFORMATION

- Zerachem Newsroom: https://zerachem.us/newsroom

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