

Non Silicone Defoamer:

Product type: Non-silicone / silicone-free defoaming agent for controlling foam in water-based or industrial process systems.

Description:

A non-silicone defoamer is used to break existing foam and help prevent new foam formation without using silicone oil as the main active ingredient. Some suppliers distinguish “non-silicone” from “silicone-free,” so confirm the wording on the product SDS/TDS if strict silicone absence is required.

Common applications:

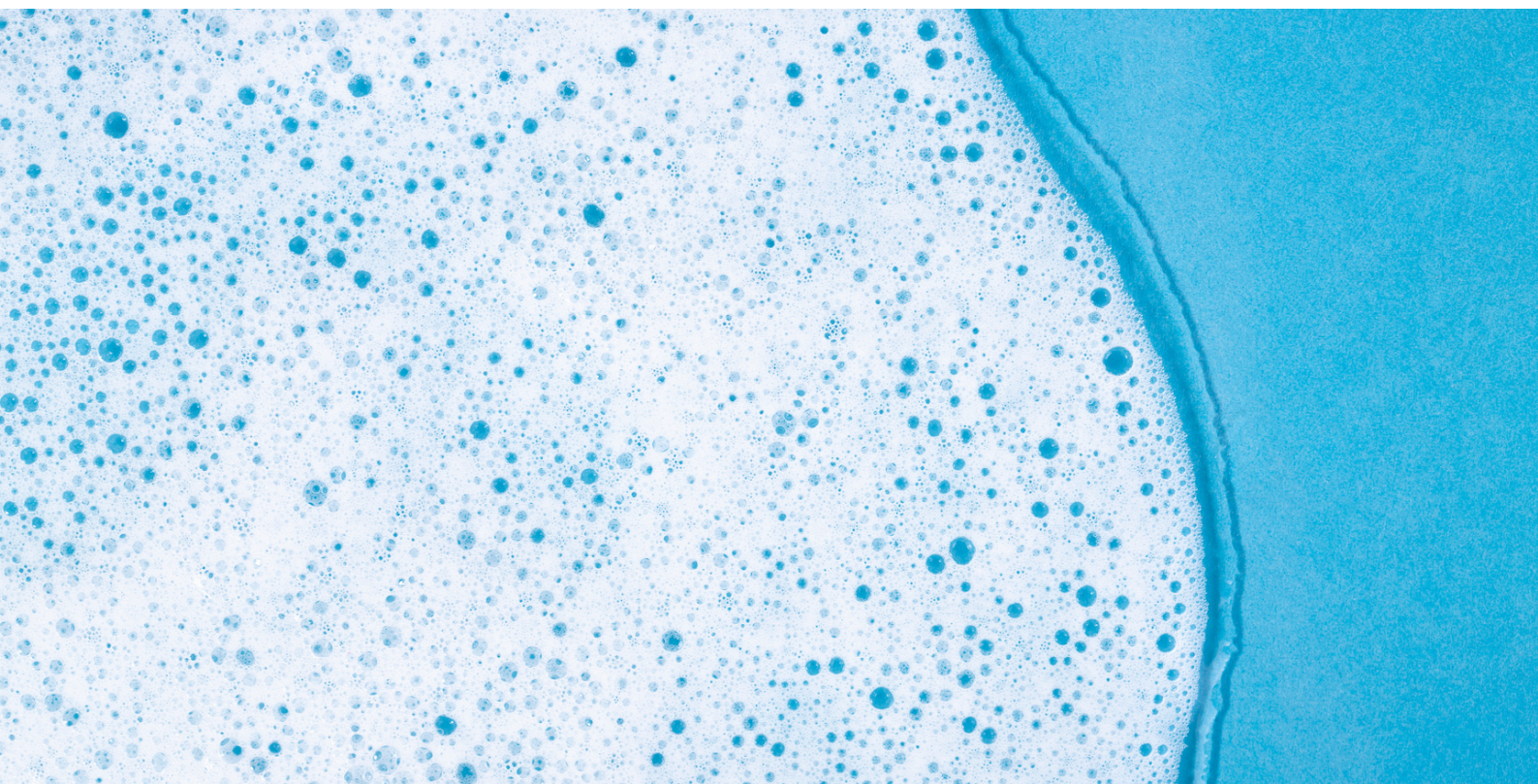
Application area	Why non-silicone defoamer is used
Paints & coatings	Controls air entrainment during mixing and helps avoid pinholes, fisheyes, craters, and uneven finishes. Non-silicone grades are often chosen when silicone can cause surface defects.
Inks, adhesives & coatings	Silicone-free surfactant/polymer defoamers are used to remove entrained air and improve finish quality.
Pulp & paper	Used in pulping, bleaching, coating, paperboard manufacture, and wastewater loops to control process foam and avoid silicone carryover issues.
Industrial wastewater / ETP / STP	Controls foam in aeration tanks, sludge handling, filtration, and recycling systems; non-silicone types may be preferred near membranes.
Textiles & dyeing	Used in scouring, dye baths, printing, finishing, and washing where foam affects wetting, leveling, or bath circulation.
Chemical processing	Controls foam in reactors, neutralization, distillation, evaporators, mixing vessels, and high-pH systems.
Cleaning systems / CIP / auto-washing	Alkali-soluble non-silicone grades are used in high-temperature cleaning systems where foam interferes with spray, pumping, or rinsing.

Specifications:

Item	Typical details
Appearance	Clear, milky liquid
Base chemistry	Mineral oil, polyether, glycol, fatty acid ester, wax, or polymer-based system
Ionic nature	Usually non-ionic
Specific gravity	Commonly around 0.85–1.10 g/mL, depending on grade
pH	Often near neutral for emulsion grades; one example range is 5.5–8.5
Viscosity	Low to medium viscosity liquid; varies by supplier and active content
Solubility / dispersion	Usually dispersible in water; some grades are self-emulsifying
Recommended dosage	Often trial-based; examples range from a few drops in small baths up to ppm-level dosing or $\leq 1\%$ by weight depending on application
Applications	Wastewater/ETP, paper processing, sugar processing, paints, coatings, inks, adhesives, aqueous cleaning systems, and other water-based process systems
Benefits	Silicone-free option, good foam knockdown, reduced surface defects in silicone-sensitive systems, easy liquid dosing
Storage	Store sealed in a cool, dry place; avoid freezing and excessive heat. One commercial antifoam lists 10–30°C storage.
Packing	Commonly 50 kg Carboy

Typical usage guidance

Add slowly at the foam-generating point or upstream of a pump/mixing area for good dispersion. Start with a low dose, observe foam control, then increase gradually. Excess defoamer can sometimes cause wetting, coating, adhesion, or dispersion issues, so lab or plant trials are recommended. A commercial non-silicone antifoam data sheet also notes allowing several minutes for full effect after addition.



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