XYZTU / TECHNICAL DATA SHEET

DF520

Silicone Defoamer for Water-Based Coatings

English translation with confirmed coatings dosage guidance

DF520 is a high-performance silicone emulsion defoamer for preventing, controlling and eliminating foam in aqueous systems. It is nonionic, disperses readily in aqueous solutions and provides foam control at low concentrations with persistent suppression.

Typical properties

Appearance	White liquid
Solids content	Approximately 40%
pH	6-8
Viscosity at 25 C	2,000-6,500 mPa.s
Diluent	Water

Applications

Water-based coatings; agrochemical suspension concentrates and aqueous formulations; water treatment (neutralization, biological treatment and drainage); cleaning processes; chemical distillation, extraction and filtration; oil and gas extraction, butadiene processing and gas desulfurization.

Use and coatings dosage

Add directly to the foaming system, or dilute with water before addition. The source sheet describes use in industrial aqueous systems. Select the addition point and amount through formulation trials.

Coatings dosage: 0.1-0.5% by mass of the total coating formulation (1-5 parts per 1,000). This range was confirmed on 24 October 2026 as supplementary coatings guidance; it is not stated in the original Chinese sheet. Determine the final dosage by testing. It does not establish a dosage for other applications.

Packaging and storage

25 kg, 200 kg or 1,000 kg packages. Store at 2-35 C. Shelf life is 12 months from the date of manufacture.

Technical notes and safety information

The source gives viscosity at 25 C but does not specify the instrument, spindle or speed. Request the applicable test method when comparing specifications.

This TDS is not a Safety Data Sheet. Request the current SDS before use through xyztu.com/en/contact/.

Document basis

English translation prepared 24 October 2026 from the existing Chinese DF520 TDS, Nanjing Xinyi Synthesis Technology Co., Ltd. No issue or revision date is shown on that source. The preparation date above is not the source revision date. View original Chinese TDS.