Paper defoamers and antifoamers



Introduction

Foaming is highly undesirable in the paper industry as it can reduce productivity and reduce paper quality. Foam control can be done chemically using defoamers which destroy surface foam or deaerators which prevent foam formation.

Today's demand for high quality paper, the increased use of modern, fast, running paper machines and the increased requirements for ecological and safe chemicals result in the need for highly efficient and eco-friendly antifoam agents.

Sasol chemicals offers a broad range of defoamers and deaerators which are based on fatty alcohols and fatty alcohol ethoxylate which are typically used in water-based formulations.

A dosage level of 0.02 to 0.1 % defoamer emulsion expressed as a proportion of the stock deaerates efficiently and avoids the buildup of stable foam.

Sasol offers both standard and unique alcohols blend. We also recommend several surfactants to further optimize and stabilize your antifoam formulation.

Sasol antifoaming products benefits

Our versatile and unique products will ensure that we offer the right technical solution for you.

Performance

Excellent de-aerating properties resulting in paper without blank spots

Flexibility

Can be used over a wide range of temperatures and have a proven track record in well known formulations.

- Safe and environment friendly
 - Used in water-based formulations
 - Biodegradable
- Less process interference
 - No interference with sizing agents and other process chemicals.
 - No negative effects on sheet sizing or sheet strength
 - Do not result in spots or pitches.
- Improved stability

Sasol unique blends and additives promote higher stability during storage and during operation than standard fatty alcohol blends

Phase	Concentration [%]	Low temperature	High temperature	
А	30	NAFOL 1822, NAFOL 1822 A, NAFOL 20+, NAFOL 20+ A	NAFOL 20+ ED, NAFOL 24+	
В	1	TRIDAC ISO-40-70 % MULTISO 13/407	TRIDAC ISO-40-70 % MULTISO 13/407	
	0.5	MARLIPAL 013/99 or SAFOL 23-7EO	MARLIPAL 013/99 or SAFOL 23-7EO	
С	0.15	Xanthan gum	Xanthan gum	
	Add to 100	Water	Water	

Concept deaerator formulation

Sasol products' portfolio



Typical properties

Property	Unit	NAFOL 20+	NAFOL 20+A	NAFOL 1822 A	NAFOL 20+ED
Density at 80 °C	g/ml	0.802 - 0.808	0.801-0.807	0.797 – 0.803	0.804
Solidification point	°C	55 – 60	54 - 58	50 - 60	61-67
Viscosity at 80 °C	mPas	6.8	6.9	6.1	7.9
Hydroxyl number	mg KOH/g	145 - 155	145 - 165	165 – 190	120 - 140

Key features

Wide operating range

No adverse side effects

- Unique stability High deaeration efficiency
 - Biodegradable
 - Silicone free

Technical Formulations

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Technical Formulations – Paper and Water Treatment

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