



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-51-2066-220

Antifoam Defoamer AF10

Antifoam for Seawater Desalination systems or other aqueous systems by RXSOL is a high-performance antifoam formulation based on a synergistic blend of **modified alcohols** and **polymerised glycol ethers**, specifically developed to control foam formation in seawater intake, pretreatment, and desalination systems.

The product rapidly collapses existing foam while providing extended foam suppression in seawater streams containing natural organic matter, algae-derived surfactants, hydrocarbons, biological contaminants, and suspended solids. The combination of fast-acting antifoam component and persistent foam-control properties of the polymerised glycol ether delivers both immediate knockdown and long-lasting antifoam performance.

The product is designed for continuous or intermittent injection into seawater make-up lines to minimize operational problems associated with foaming in desalination plants.

Application

Desalination Plants

- Reverse Osmosis (RO) Plants
- Multi-Stage Flash (MSF) Plants
- Multi-Effect Distillation (MED) Plants
- Hybrid Desalination Facilities

Seawater Systems

- Intake Channels
- Seawater Make-up Lines
- Pumping Stations
- Equalization Basins
- Clarifiers
- Dissolved Air Flotation (DAF) Units
- Pretreatment Systems

Industrial Water Systems

- Power Plant Cooling Water Intakes
- Refinery Seawater Systems
- Petrochemical Facilities
- Offshore Platforms
- LNG Terminals

Comarision to Antifoam Defoamer (RXSOL-16-2066 / Silicone based)

Antifoam AF10 (RXSOL-51-2066)	Antifoam Defoamer (RXSOL-16-2066)
Rapid dispersion	Moderate
Lower fouling tendency	Higher fouling risk
Easier dilution	Difficult
Better seawater compatibility	Good
Lower deposit formation	Moderate
Suitable for continuous dosing	Excellent

Properties

Parameter	Value
Appearance	Clear to Pale Yellow Liquid
Water solubility	Completely soluble
Specific Gravity at 25°/25°C	<1
Odour	Slight

Features

Dual Action Foam Control

- Instant foam collapse through modified polyol action.
- Long-term foam suppression through polymerised poly glycol ether technology.

Fast Dispersion

- Rapid distribution throughout seawater systems.
- Immediate contact with foam-generating zones.

Extended Foam Prevention

- Reduces re-formation of foam after treatment.
- Maintains stable process conditions.

Improved Plant Reliability

- Minimizes overflow and air entrainment.
- Reduces process interruptions.

Excellent Seawater Compatibility

- Effective across a wide salinity range.
- Suitable for open seawater intake systems.

Low Fouling Characteristics

- Non-silicone formulation.
- Minimal risk of membrane fouling compared with conventional silicone antifoams.

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit **eastindiachemicals.com**. This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.