



TECHNICAL DATA SHEET (TDS)

Product Name: ASHAION® MA 342 S

Product Type: Membrane Antiscalant

Application: Reverse Osmosis (RO) Systems with High Silica Feed Water

Product Description

ASHAION® MA 342 S is a high-performance membrane antiscalant formulated specifically to control silica scaling in reverse osmosis systems. It effectively disperses silica and prevents the formation of metal oxide fouling, ensuring long-term membrane protection and improved plant reliability. It is compatible with all types of polyamide membranes and can be used in systems treating brackish, waste, and high-silica feed waters.

Key Features & Benefits

- Prevents silica scaling in RO membranes even at high saturation levels
- Inhibits deposition of metal oxides such as iron and aluminum
- Minimizes downtime and cleaning frequency
- Enhances membrane life and performance
- Compatible with most membrane types and system chemistries
- Effective over a wide pH range

Typical Applications

- Brackish water RO systems with high silica content
- Industrial wastewater treatment RO systems
- Municipal water reuse and reclamation plants
- Desalination pre-treatment systems

Dosage Guidelines

The typical dosage range is 2–6 ppm, depending on feed water quality, silica concentration, and system recovery. Exact dosing should be determined based on detailed feed water analysis and system design parameters.

Handling & Safety

- Use appropriate personal protective equipment (PPE) such as gloves and safety goggles.

- • Avoid direct contact with skin and eyes.
- • In case of contact, rinse thoroughly with water.
- • Refer to the Material Safety Data Sheet (MSDS) for detailed safety and first aid measures.

Storage & Shelf Life

Store in a cool, dry, and well-ventilated area. Keep container tightly closed when not in use. Shelf life is 24 months from the date of manufacture when stored in original, unopened containers at ambient conditions.

Packaging

Available in 25 kg and 50 kg HDPE carboys or 200 kg HDPE drums. Custom packaging available upon request.

Regulatory Information

ASHAION® MA 342 S is compliant with major international membrane manufacturers' guidelines. For specific regulatory or compliance queries, please contact our technical support team.

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