



Product Facts

Hypersperse™ MSI310 Membrane System Antiscalant/Antifoulant

- Classified for use in producing potable water. (Classified to ANSI/UL Standard 60).
- Superior control of silica, calcium carbonate, calcium sulfate, barium sulfate, and strontium sulfate scales.
- May be feed neat or diluted.
- Compatible with all of the leading RO membranes.
- Maintains cleaner membrane surfaces by dispersing particulate foulants.
- Effective over a wide pH range. Compatible with feedwaters that contain aluminum and iron oxides.

DESCRIPTION AND USE

Hypersperse™ MSI310 is a highly effective liquid anti-scalant/antifoulant specifically designed for silica scale. **It is the only silica inhibitor with extensive, actual pilot study data for efficacy on membrane systems applications.** Data shows **effective control of silica up to 240 ppm although applications on variant water sources may establish even higher limits.** Use of this product provides longer run times and extended element life resulting in reduced operating and capital costs.

PACKAGING INFORMATION

Hypersperse MSI310 is a liquid material, available in a wide variety of customized containers and delivery methods. Contact your BetzDearborn sales representative for details.

APPLICATION

For maximum effectiveness, Hypersperse MSI310 should be added prior to the static mixer or cartridge filter housing. It can be fed neat (undiluted) directly from the shipping container or can be diluted (see below).

Maximum dosage is 10 mg/L and maximum recommended dilution is 10% with RO permeate or DI water at typical operating temperatures (<30°C).

DOSING

Typical dosage range is between 3 and 6 mg/L.

Important Note: Over and under-dosing may cause membrane fouling so please contact your local BetzDearborn representative to define the optimal feedpoint and dosage rate.

Maximum Dilutions

Maximum dilution is temperature related as shown below.

<u>Temperature, °C</u>	<u>Maximum Dilution, %</u>
<30	10
30-35	25
>35	50

SAFETY PRECAUTIONS

A Material Safety Data Sheet containing detailed information about this product is available upon request.