

## DERSCALANT 30-S

### Antiscalant/Antifoulant

#### **Composition:**

Derscalant 30-S is a general purpose antiscalant and antifoulant for use in Reverse Osmosis and Nano-Filtration Membrane Systems.

#### **Technical Properties:**

Derscalant 30-S is used for inhibiting common scales (Calcium carbonate/ sulphate, calcium phosphate, barium/strontium sulphate, silica, iron and manganese). Derscalant 30-S is compatible with each type of membrane, carbon steel and other building materials and is approved for use in the drinking water applications. It has proven to be effective at LSI of +2.8 which means that systems can be designed and operated at optimum recovery rates. Derscalant 30-S may also be used in sea water applications and is NSF listed product.

#### **Physical Properties:**

Appearance: Yellow liquid  
Odor: Odorless  
pH: 9,0-11,0

#### **Why Derscalant 30-S**

##### **1) Low energy and cost:**

Derscalant 30-S provides operation at higher concentrations. Thus, It helps to reduce the water consumption by using less water. Derscalant 30-S reduces cleaning frequency of membranes. Thus, It provides saving energy and low cost.

##### **2) Efficiency:**

If the correct treatment is not done or treatment is not enough; system equipments may be damaged due to clogging and fouling. Derscalant 30-S helps to be long-lasting of membrane and equipment at high performance. It contributes to more efficient operation of the process by preventing the problems in the system.

Derscalant 30-S can be diluted and is fully miscible with water in all proportions.

#### **4) Health and Environment:**

Derscalant 30-S does not contain heavy metals in composition. It is not harmful to the environment and human health.

#### **Dosage:**

Derscalant 30-S should be dosed continuously to the feed water of the cartridge filters.

Typical dose rates are 10 – 20 mg/L.

In the sea water applications:

Typical dose rates are 0.5 – 1.0 mg/L.

The optimum dosage rate can be calculated using the Derscalant Membrane Master software. Please request Derscalant Membrane Master software from our technical team.

#### **Application:**

Derscalant 30-S can be diluted with RO, pure water and demineralized water. It should not be diluted with hard water to avoid precipitation and cloudily. Dosing system parts must be resistant to weak acid and alkali. Automatic dosing system should be used preferably.

#### **Packaging and Storage:**

Derscalant 30-S should be stored indoor at room temperature. It must be stored in own packaging. Its shape is 25-60 kg polyethylene drums. When stored under proper conditions, shelf life is about 2 years.