



**F&B Divos 1**

**VM46**

## Low Phosphate Acidic descaler for UF, NF & RO membranes

### Description

Divos 1 is a low foaming, high active, mixed acid detergent descaler for use in membrane cleaning applications. Divos 1 can be used for the removal of protein and scale deposits across all food & beverage industries. Divos 1 is highly effective for the removal of milkstone in dairy membrane applications.

### Key properties

- Divos 1 contains phosphoric acid and cannot be used on ceramic MF membranes.
- Divos 1 is highly effective for the removal of protein and inorganic scaling from UF, NF & RO applications in the dairy, pharmaceutical, food & beverage industries.

### Benefits

- Highly effective in removing inorganic scale deposits from membranes, increasing permeation rates and returning water fluxes to original values.
- Used in dairy membrane applications where protein and milkstone is a problem, increasing permeation rates, recovering water fluxes and maintaining optimum production capacity.
- Most membrane cleaning applications are single use and dump. Consistent chemical delivery can be ensured by using automatic timed dosing, or by conductivity.

### Use instructions

Divos 1 is used at concentrations of 0.5-1% w/w (0.4-0.8% v/v), at 50°C for 15-30 minutes.

The temperature & pH that Divos 1 is used at depends upon the cleaning temperature & pH tolerance of the membrane.

Divos 1 containing solutions should be thoroughly rinsed after use to remove them from all food and beverage contact surfaces.





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#### Technical data

Appearance: Clear, colourless liquid

pH (1% solution at 20°C): 1

Relative density (20°C): 1.28

Chemical Oxygen Demand (COD): None

Nitrogen Content (N): 85 g/kg

Phosphorous Content (P): 21 g/kg

**Divos 1 [% w/w] - Specific conductivity at 25°C [mS/cm]: -**

0.5 - 12.8

1 - 25.1

2 - 46

3 - 66

4 - 85

*The above data is typical of normal production and should not be taken as a specification.*

#### Safe handling and storage information

Store in original closed containers or (where applicable) in an approved bulk tank, away from extreme temperatures. Full guidance on the handling and disposal of this product is provided in a separate Safety Data Sheet.

#### Product compatibility

Always ensure that you check the membrane type and temperature & pH tolerance with the customer, membrane manufacturer, or OEM before making any recommendations.

#### Test method

##### Reagents:

0.1 N Sodium hydroxide solution

Phenolphthalein indicator

##### Procedure:

Add 2-3 drops of the indicator solution to 10 ml of the test solution. Titrate with the caustic to a red end point.

##### Calculation:

% w/w Divos 1 = titre (ml) x 0.14

% v/v Divos 1 = titre (ml) x 0.11