



F&B

Divos A1

VM49

P-free acidic descaler for all membrane types

Description

Divos A1 is a low foaming, high active, P-free, mixed acid descaler for use in membrane cleaning applications.

Divos A1 can be used for the removal of scale deposits across all food & beverage industries.

Divos A1 is highly effective for the removal of milkstone in dairy membrane applications.

Key properties

- Divos A1 is buffered and the cleaning solution is within the pH limits of the membrane
- Divos A1 can be used on all membrane types
- Divos A1 is P-free and can be safely used on ceramic membranes
- Divos A1 contains a blend of organic and inorganic acids that performs better in Ca-phosphate solubilization than Nitric/Phosphoric Acids-based products

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 milkstone is a problem, increasing permeation rates, recovering water fluxes and maintaining optimum production capacity.
- Highly effective in removing inorganic scale and milkstone at pH levels of 1.8-2.0, preventing membrane damages.
- 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 A1 is used at concentrations of 0.1-1.5% w/w (0.08-1.21 v/v), depending on the pH of the cleaning solution, at 20-60°C for 15-30 minutes. The temperature & pH that Divos A1 is used at depends upon the cleaning temperature & pH tolerance of the membrane but the pH is advised to be between 1.8-1.9.

Divos A1 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
Relative density at 20°C	1.24
pH (1% solution at 20°C)	1.4
Chemical Oxygen Demand (COD)	129.1 g/kg
Nitrogen Content (N)	58 g/kg
Phosphorous Content (P)	0g/kg

Divos A1 [% w/w]	Specific conductivity at 25°C [mS/cm]
0.1	1.8
0.3	5.0
0.5	7.8
1.0	14.9
1.5	22.0
2.0	28.7

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 A1 = titre (ml) x 0.167 % v/v Divos A1 = titre (ml) x 0.135