

Divos 110

Alkaline detergent for all UF membranes

Description

Divos 110 is a foaming, alkaline detergent liquid, for the cleaning of chlorine stable UF & MF membranes.

Divos 110 is a medium caustic liquid detergent suitable for hard water.

Divos 110 is mainly used for dairy applications, with chlorine for UF & MF installations.

Divos 110 can also be used for beverage & pharmaceutical applications.

Key properties

- Divos 110 has been tested and approved for use on all types of UF & MF membranes.
- Divos 110 does not contain chlorine. For organic soil removal on chlorine stable UF & MF membranes Divos 110 is used in combination with 120 ppm active chlorine (Divosan Hypochlorite). This level has to be maintained until steady level of active chlorine has been reached.
- Divos 110 is used for dairy UF & MF applications with Divos 80-2 to improve protein removal.
- Divos 110 is effective for the removal of organic and inorganic scaling across other UF & MF beverage & pharmaceutical applications.

Benefits

- Tested on all relevant chlorine stable UF & MF membrane types and approved for use by major OEM's.
- Highly effective in the removal of fat, protein and prevents scale build up in dairy applications, increasing cleaning and production efficiency.
- When used in combination with chlorine for UF & MF installations processing milk products, it increases cleaning efficiency.
- Can be used in beverage & pharmaceutical applications, in combination with chlorine for UF & MF installations, where organic soiling is a problem, recovering water fluxes and optimising 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.
- Enhances cleaning efficacy, improving productivity and final product quality.

Use instructions

Divos 110 is used at concentrations of 0.5-1.0% w/w (0.42-0.84% v/v) at 50°C for 20-40 minutes on pH 11-11.5 tolerant UF & MF membranes in combination with 120 ppm chlorine (the chlorine level should be maintained at 120 ppm throughout the clean).

The temperature & pH that Divos 110 is used at depends upon the cleaning temperature & pH tolerance of the membrane.

Divos 110 containing solutions should be thoroughly rinsed after use to remove them from all food and beverage contact surfaces.

VM7



Divos™

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Technical data

Appearance	Clear, pale yellow liquid
Relative density at 20°C	1.19
pH (1% solution at 20°C)	12.2
Chemical Oxygen Demand (COD)	101 gO ₂ /kg
Nitrogen Content (N)	2 g/kg
Phosphorous Content (P)	21 g/kg

Divos 110 [% w/w]	Specific conductivity at 25°C [mS/cm]
0.5	2.6
1	5.3
2	10.4
3	15.5
4	20.4
5	25.4

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 Hydrochloric or sulphuric acid Phenolphthalein indicator
Procedure:	Add 2-3 drops of the indicator solution to 10 ml of the test solution. Titrate with the acid to a colourless end point.
Calculation:	% w/w Divos 110 = titre (ml) x 0.53 % v/v Divos 110 = titre (ml) x 0.48