

ACID CROSSFLOW

Rev. 1 – 07.2024

ACIDIC DESCALING DETERGENT FOR MEMBRANES



DESCRIPTION

ACID CROSSFLOW is a descaling detergent based on nitric and phosphoric acid, particularly suitable for cleaning membranes widely used in the food, pharmaceutical, and beverage industries.

It is specifically designed for the removal of inorganic residues from surfaces and is also suitable for cleaning UF (Ultrafiltration), RO (Reverse Osmosis), NF (Nanofiltration), and MF (Microfiltration) membranes, as well as cross-flow filtration systems.



TECHNOLOGICAL APPLICATIONS

ACID CROSSFLOW is in liquid form and can be dosed using automatic equipment (CIP systems) for dosing and control.

The use of ACID CROSSFLOW protects stainless steel surfaces by creating a thin film that prevents and delays oxidation.

ACID CROSSFLOW is compatible with most materials commonly used in the food industry; however, its use is not recommended on aluminum, copper, galvanized iron, and surfaces treated with phenolic resins.

TECHNICAL SPECIFICATIONS

Physical appearance: Clear green liquid
pH (1% solution): 2.0 ± 0.5

Relative density at 20°C: 1.20 ± 0.05

Conductivity 1% sol. at 25°C: 22 mS/cm

*Chemical-physical data that do not constitute a specification

TITRATION METHODOLOGY

Sample: 50 mL of washing solution

Indicator: phenolphthalein

Titrant: Sodium hydroxide (NaOH) 1N solution

% (v/v) Acid Crossflow = $\text{mL titrant} \times 0.379$

% (w/w) Acid Crossflow = $\text{mL titrant} \times 0.434$



DOSES AND METHOD OF USE

It is recommended to use concentrations ranging from 0.2% to 1% after an initial rinse with water, at temperatures between 20°C and 55°C, with contact times between 30 and 40 minutes. It is important to consult the technical specifications of the equipment (regarding pH and temperature tolerance) before use.

After treatment, it is necessary to rinse with potable water to completely eliminate any possible detergent residues.



PACKAGING STORAGE

25 Kg drums

Store in a cool, dry place away from extreme temperatures.