

CHEMICAL PRODUCTS
FOR MEMBRANE
SEPARATION PLANTS

WITH AN ATTENTIVE
EYE TO NATURE



Chemical Products for Membrane Separation Plants

Condoroil Group developed products and technologies dedicated to the field of the membrane separation, in particular a wide range of products used in membrane separation plants that can be divided into Detergent (DTM) aqueous or powder based – Antifoaming – Antiscaling – Preservatives and Biocide.

Condoroil also studies and carries out “autopsy” of soiled membranes providing the customer with analyses certificates and tests results on detergency. Thanks to these tests Condoroil is in the position to study the specific formula for that specific kind of deposit.

Qualified technical personnel, research and test laboratory are at the customers’ disposal to meet any request.

ANALYTICAL LAB



Autopsy on non performing membranes

- membrane surface analysis
- analyses of deposits and dirt

RESEARCH LAB



Cleaning tests are carried out. Condoroil chemical can formulate and manufacture specific products to meet customers need in the event that standard products should not satisfy the requests.

TEST LABORATORY



- technical support in the membrane choice by using pilot plants
- evaluation and selection of the membranes
- check of chemical compatibility by long term tests

Several pilot plants are available with different membranes geometry: *tubular, spiral, flat*

and materials: *polymeric, ceramic, carbon fibre*

On different technologies: *Diffusion dialysis; electro dialysis; reverse osmosis; nanofiltration; ultrafiltration; microfiltration*

DETERGENTS

DTM 2 Detergent
Liquid. Acid product for washing membranes used in high hardness primary water treatment

DTM 2F Detergent
Liquid. Acid product for washing membranes used in water rich of silica



DTM 20X Detergent
Liquid. Acid product for washing membranes used in process water treatment, excellent to remove metallic salts

DTM 7 EZP Detergent
Powder. Neutral product with a high content of active substances and a rich mixture of enzymes. It is mainly used on membranes for oil, food and/or pharmaceutical

DTM 114 OX7 Detergent
Liquid. Alkaline, active chloride based detergent – sanitizing product

DTM 13 Detergent
Powder. Slightly alkaline product largely used in generic detergency of membranes used on process water rich in organic substances

DTM 8 Detergent
Liquid detergent for solubilization of scaling salts of calcium and manganese at neutral pH

DTM 14 Detergent:
Powder. As the previous one, it is mainly used, thanks to the high content of sequestering agents, on membranes used for process water rich in organic substance and scaling compound (Fe, Ca, Mg etc.)

DTM 112L Detergent
Liquid alkaline detergent, complete of surfactants and sequestering agents, for calcium, manganese and metals salts

DTM 113L e 114L: Detergent
Liquid. Similar as DTM 13 and 14 except that they are liquid and free of surfactants

ADDITIVES

MIX EL Additives
Liquid. Mixture of non ionic surfactants to be used, if necessary, to help the action of the above mentioned detergents

MIX ML Additives
Liquid. Similar to additive MIX EL but it contains anionic surfactants

MIX EZ Additives
Liquid. Combined mixture of enzymes (amylase, protease and lipolase) to be used, if necessary, with neutral and/or alkaline detergents.

ANTISCALING

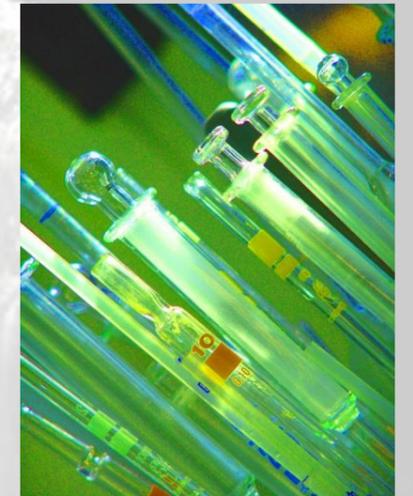
Condorhibit CR 09
Liquid. Antiscaling agent mainly used to preconditioning of water rich in silica and in calcium salts

Condorhibit CR 08
Liquid. Excellent antiscaling to prevent calcium salts deposits on the membrane surface

Condorhibit CR 06
Highly concentrate liquid. Antifouling, excellent to prevent scale deposits on the membrane surface.

ANTIFOAMING

Antifoaming T
Liquid. Non silicon antifoaming agent for any kind of membrane tested up today.



BIOCIDE

C41 Biocide
Liquid. Brome- nitro derivates and sulphur heterocyclic compounds based bactericide agent to be used for sanitization, at neutral pH, of the membrane and the circuit.

AP 76 Biocide
Liquid. Paracetic acid based Bactericide agent for sanitization, at acid pH, of the membrane and the circuit.



PRESERVATIVES

CR 07 Preservatives
Liquid. It is used to prevent bacterial flora on any kind of membrane installed on the plant after long inactivity.