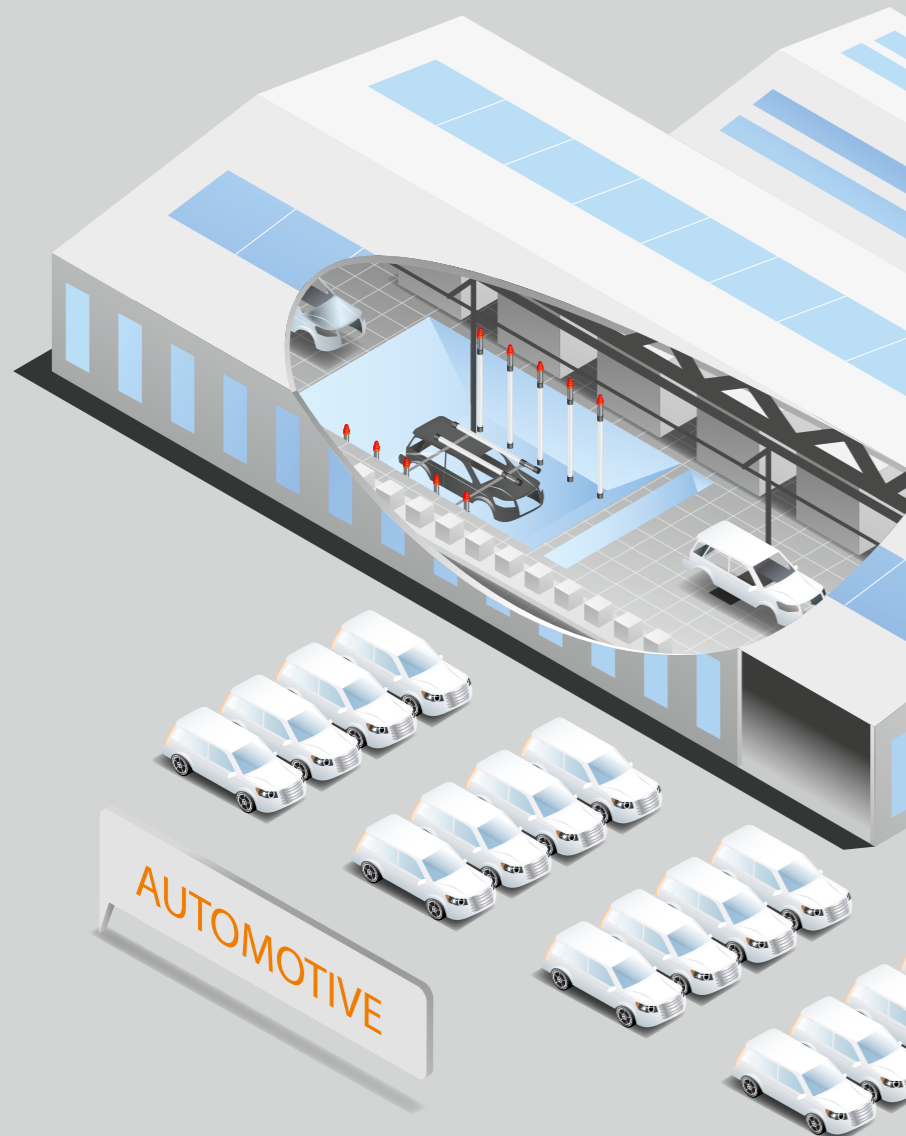


Electrodialysis Cells,  
made by ALTING



## Electrodialysis Membrane, the Solution for your Ecoat tank

We support most major automotive manufacturers since 1998.  
Our solutions are custom tailored to each cataphoresis tank,  
warrantied and co-developed for the End User.



## Membranes

- 1 ALLOW HIGH IONIC TRANSFER :  
15% to 20% greater than flat ED-membranes
- 2 ARE EXTRUDED AND SELF SUPPORTED :  
no grid, no glue to build a cylinder, no leakage
- 3 CAN BE DRIED, RE-WETTED AND USED AGAIN
- 4 HAVE A SMOOTH SURFACE :  
easy to clean and brush – no grid inside or outside
- 5 ARE NOT WATER PERMEABLE :  
no anolyte permeation during maintenance operations



## EDCORE® Cells

- 1 ARE ENERGY FRIENDLY :  
saving 15 to 20% energy in the process
- 2 EXPAND FREELY FROM DRY TO WET :  
NO WRINKLES, no paint sedimentation
- 3 HAVE A LONG LIFE TIME :  
many installations over 10 years old
- 4 ALTING PROVIDES 3 YEARS WARRANTY  
IN AUTOMOTIVE INDUSTRIES  
QC : all EDCORE Cells are tested under water pressure
- 5 ARE ALL BUILT WITH DESIGNS UNDER PRESSURE :  
- allowing sized flow rates for each cell  
- optimizing energy costs for the pumps
- 6 ALLOW FRIENDLY MAINTENANCE-MONITORING  
AND CAN BE REPAIRED (SMALL CUTS :  
WITH EDCORE MEMBRANE PATCHES)
- 7 ALTING OFFERS ASSISTANCE IN SIZING,  
and proposes contracts for Mounting and Maintenance



# Electrodialysis Cells, made by ALTING



## Membrane Description

Membrane material :	Polyolefin + Polystyrol + Ionic Resins + Divinyl Benzene
Membrane type :	seamless extruded Membrane
Surface membranaire EDCORE :	ø 63 mm -> 0.193 m <sup>2</sup> activ per/ Meter
EDCORE® Max :	ø 81 mm -> 0.254 m <sup>2</sup> activ per/ Meter
Membrane thickness :	2,8 mm
Burst resistance :	> 2 kg/ cm <sup>2</sup>
Tensile strength :	> 250 kg
Electrical resistance :	100-150 Ohm/cm <sup>2</sup> (mesured by a concentration of 1 ,5 %, CH3 COOH 99%)
Dynamic Transport :	91 % (Acetic Acid at 3 %) 80 % (with an over flow of acetic acid)
Ionic Echange :	1,4 – 1,6 meg / g dry
Water permeabilty :	no water permeation
authorized pH range :	1 - 12

## Electrode Description

Material :	316 L / 3R65 seamless extruded, degreased and passivated
Diameter :	for EDCORE 48,3 mm x 2,77 mm for EDCORE Max 60,3 mm x 2,77 mm
Surface :	0,153m <sup>2</sup> per Meter (EDCORE®) 0,190m <sup>2</sup> per Meter (EDMAX)
Authorized Intensity max. :	50 A/m <sup>2</sup>

## Process parameters (Anolyte)

Inlet pressure Maximal :	for EDCORE® 0,8 bar for EDCORE® Max 0,5 bar
Temperature max :	45°C
Δ Temp Inlet / Out let :	2°C
Anolyte-Flow rate :	3 to 5 L/h/Amp/m <sup>2</sup>
Authorized Tension max. :	75 A/m <sup>2</sup> active anodic surface

## ED-Cell customer driven solutions

length :	adapted to the customer requests
Anolyte connections :	Inlet : Ø9 / 15 mm Outlet : Ø12 / 19 mm
Electr. connections :	16 mm <sup>2</sup> - for VC (vertic. Closed) 25 mm <sup>2</sup> for HB(Hor. Bottom)

## Advices

Temperature range : given by the paint producer for the process. Maxi 45°C  
The EDCORE® cell can dry and be reused (Membrane cleaning with EDI Water)  
The EDCORE® cell expand from DRY to WET : +5% for EDCORE® +7% for EDMAX