

Low carbon **CO₂** foot print

EcoHpc is environmentally friendly, as our cathoporesis process has a reduced carbon footprint compared to other alternative protections.

Chemical aggresion

Salt spray test (ASTM B 117) has shown that, on the cages treated with the EcoHpc Plus, the rust doesn't spread out even if cages are left more than 500 hrs in the chamber.

The electroplating process is a surface treatment that provides to the cage a higher resistance against corrosion; it's characterized by the uniform deposit of an epoxy pigment paste on the surface, ensuring long-lasting protection against chemical agents and gases.

Storage and transport

If storage and handling recommendations are carefully followed during transport, unloading and warehousing of goods, the characteristics of the coating treatment won't be altered (see storage and handling manual for more info).

High temperature

EcoHPC Plus coating process can withstand continuous temperature of 200°C, with maximum peaks of 240°C. Laboratory tests show that the cage treated with the EcoHps Plus method resist better and longer under conditions of high temperatures.

Performance over time

Thanks to its features, the EcoHpc Plus grants the absence of stitching effect on the bags and a better and long-lasting performance compare to that of other treatments (see comparative table).

Dedicated plant

The treatment process is developed in six metal processing stages:

- Tanks 1-4.** Cages are cleaned and degreased in baths of water and sodium hydroxide at a temperature of 50/60°C for about 15 minutes, with the aid of the new nanotechnology.
- Tanks 5-6.** Residues are removed from the surface soaking the cages in bath of demineralized water H₂O and other solutions:
 - Water at room temperature
 - Electrical conductivity <50 mS/cm
 - 30% sodium hydroxide solution
 - Hydrochloric acid
 - Nanotechnological treatment
- Tank 7.** Electrolytic coating consist in:
 - 10% solid of a mix of pigment paste and epoxy resin in demineralized water.
 - Bath temperature 27/28 ° C.
 - Voltage supply 380 V.
- Tank 8-9.** Final cleaning of cages: 5 minutes of washing and rinsing, and 8 minutes of draining wash.
- The paint dries in the oven at 160°C for about 30 minutes.
- Packing phase:** crates with cages are ready to be dispatched.

COMPARATIVE TABLE



EcoHpc Plus is the most successful achievement among the cages coating treatments.

Eco

Thanks to the knowledge and experience in the filtration field CleanAir has reached a treatment at low environmental impact awarded by the ecological transition National Ministry.

HPC

The treatment developed by CleanAir provides high performance of cages and thus a **longer** lifecycle, **higher reliability, higher quality and higher safety.**

Plus

Continuous research represents the **evolution** of CleanAir. Research and Develop brought to the introduction of nanotechnology that increased the performance of cages in any work environment.





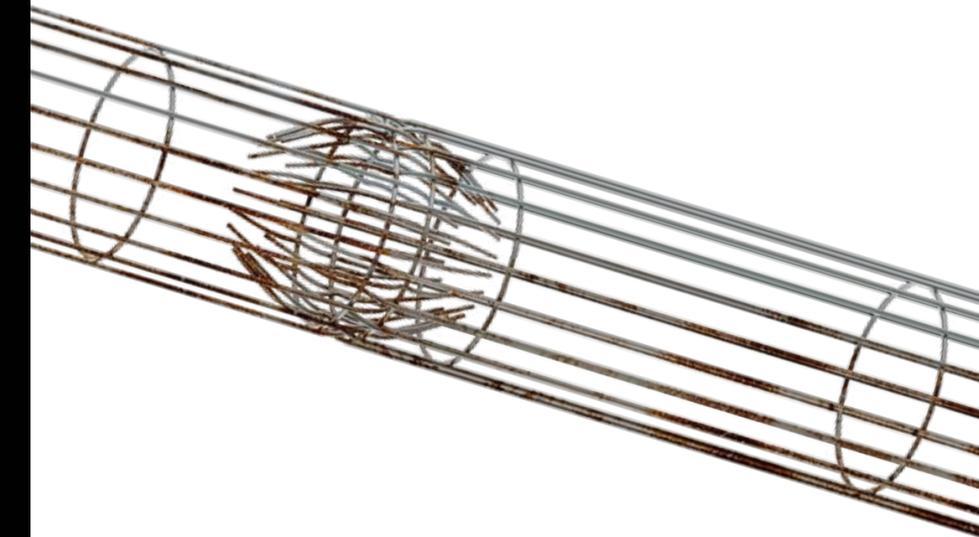
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Ecological high performance process

You can get better
performance



Time, high temperature, humidity, and chemical aggressions lead to a fast deterioration of the coating material. CleanAir has, therefore, developed a unique treatment to **improve product performance.**

