

↑ ENVIRONMENT PROTECTION

INERA®

EXCLUSIVE COILS

LONG LASTING RESPONSIBILITY

INERA® is a new option based on the outstanding properties that some aluminum alloys present against corrosion.

INERA® coils are composed by copper tubes and fins made of this special alloy. In fact, this alloy is one of the most used in maritime applications. Moreover, it has a great ease to be mechanized for the manufacture of heat exchanger fins. This allows CIAT launch this exclusive option.

The exclusive alloy in INERA® coils endows the fins with an outstanding resistance to corrosion without need of any pretreatment or additional surface post protection.

To be also noted that being an alloy, and not a surface treatment susceptible of deterioration, the resistance degree against corrosion is characteristic of the material, it is a property that the fin already has.



Air quality • Welfare • Energy optimisation

MAIN FEATURES



Resistance to corrosion

The alloy has excellent performance against corrosion in saline environments. The conclusion from the results of the standardized tests (more than 1.000 hours under ASTM B117 / ISO 9227) is that protection against corrosion is perfect when analyzing the sample and according to the evaluation norms in neutral salt spray tests.

In fact, the INERA® fins material is indicated to be used in maritime, industrial and rural environments.

It is not a superficial protection but a material that presents resistance against corrosion itself.

Permanence

Being an alloy, its mechanical stability is better than the solutions based in coating protections.

The edges of the fins enjoy the same stability as the fin itself, as compared to what happens with the pre-lacquered options such as polyurethane coatings, that it is left unprotected due to the mechanizing.

Lightweight

As it is lighter than copper, the weight of the INERA® coil is considerably reduced in comparison to its equivalent made in copper-copper.

Reduces the investment

It has a far more competitive price than copper-copper and it is aligned with in the polyurethane options.

Being exposed to the same environments, the expected life of INERA® coils is equivalent to that of the equipment; this is clearly advantageous as it allows for a lower starting investment thus avoiding the owners to fall into a great cost of ownership for a component that will significantly last beyond the lifespan of the equipment.



Performance

Better thermal conductivity than the polyurethane pre-lacquered or final coating options, so it does not have any efficiency losses.

