Zinc coating is a process by which a zinc cover is applied on a metallic product to protect it against galvanic corrosion.

Corrosion occurs as a processed metal reverts back to its natural state. This process is known as oxidation. It cannot be stopped but it can be controlled by creating a barrier that isolates the base metal from electrolytes.

## TYPES OF CORROSION:

- White corrosion: oxidation of the zinc layer on a metal part
- Red corrosion: oxidation of the base metal of the plated part •

We propose and apply on our fittings a layer of zinc-nickel, followed by a passivation free of chrome and sealing, further protection for the

The use of a sealing increases the resistance to corrosion of 48-96

The zinc-nickel resistance to corrosion is a lot higher with regards to the layer of only zinc and this allows a more elevated protection of the fitting, improving it also in transport phase and in the assembling

The endurance of the coating zinc-nickel based is up to 10 times more

The fittings pictured on this page, some crimped and some not, underwent to resistance tests in standard salty fog. The photos

The test results are more than satisfying. After more than 500 hours, we have noticed the white rust only on fitting which had not been crimped, while red rust appeared on the crimped fittings after 500

operations, where the coating can be damaged.

**RESISTANCE TESTS RESULTS** 

refer to a test of over 500 hours.

elevated with respect to a common zinc covering.

The negative impacts of corrosion include:

- · Threat to the integrity of the fluid conveyance system
- Risk of safety or failure of the system
- Costly downtime

**NEW SOLUTION** 

zinc-plated item.

hours to neutral salt test.

- · Early replacement cost
- Decreased equipment utilization
- Unpleasant aesthetic appearance





White corrosion

Red corrosion













## THE MARKETS

hours.

The new zinc-nickel treatment is the right solution for the most demanded applications, including those in the following fields:







Mining and



Mobile Material Handling



and



Transportation



Manufacturing

Agriculture

Construction

Drilling





