



LARGA Zinc - Nickel

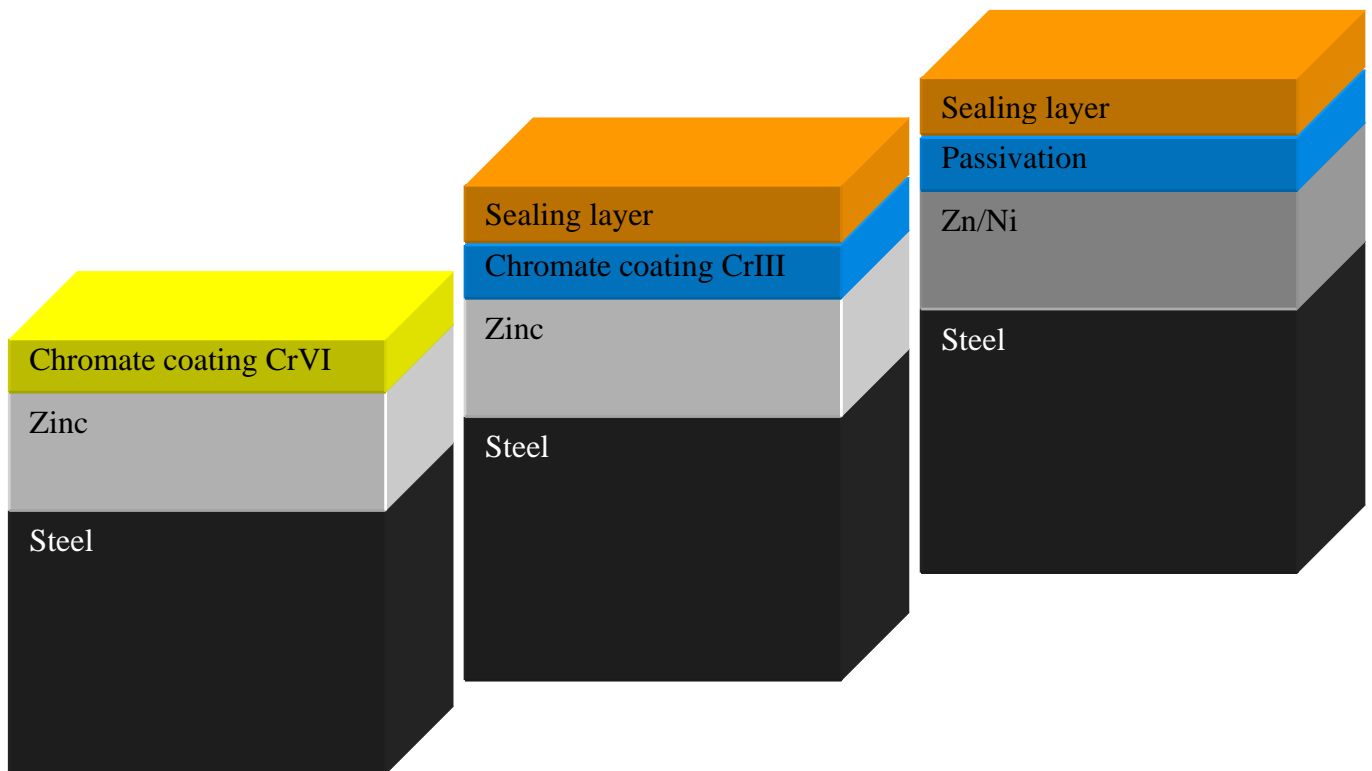
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1. TECHNOLOGY

The innovative Larga Zn/Ni plating exceeds the requirements of European laws, combining top corrosion resistance and environment safety.

Here below is the comparison of the coating structure in the evolution from yellow CrVI (A3C) to white CrIII and to the new Zinc/Nickel.



A3C
YELLOW CrVI CHROMATION WHITE CrIII CHROMATION LARGA Zn/Ni

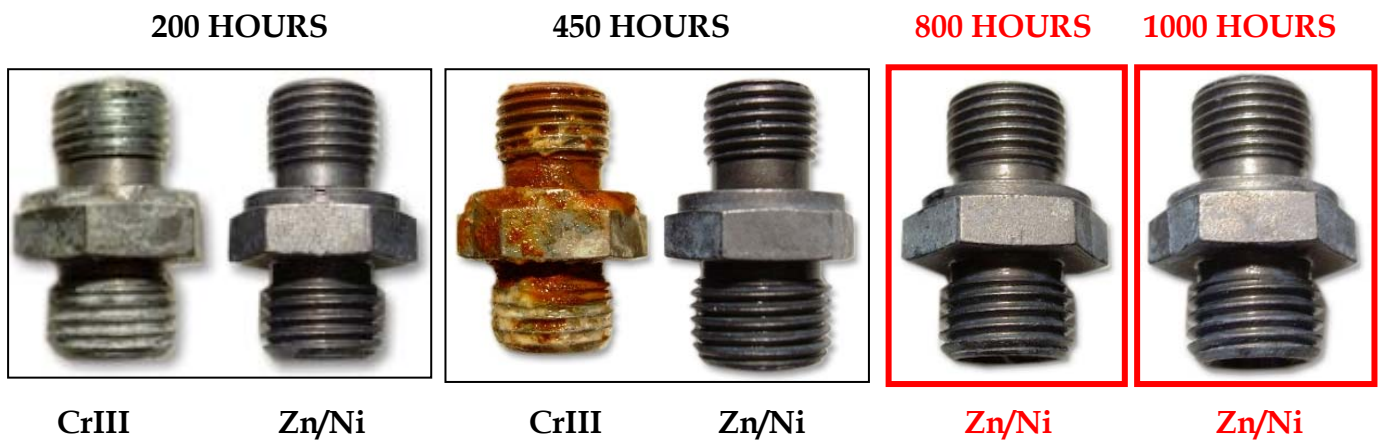
2. SALT SPRAY TEST RESULTS

The special coating with a total layer thickness of 6-10 mm and a nickel content of 12%-15% offers the best corrosion resistance.

Here below are examples of salt spray tests: EN ISO9227, runned in house showing the major benefits of Zn/Ni coating versus actual CrIII passivation technology.

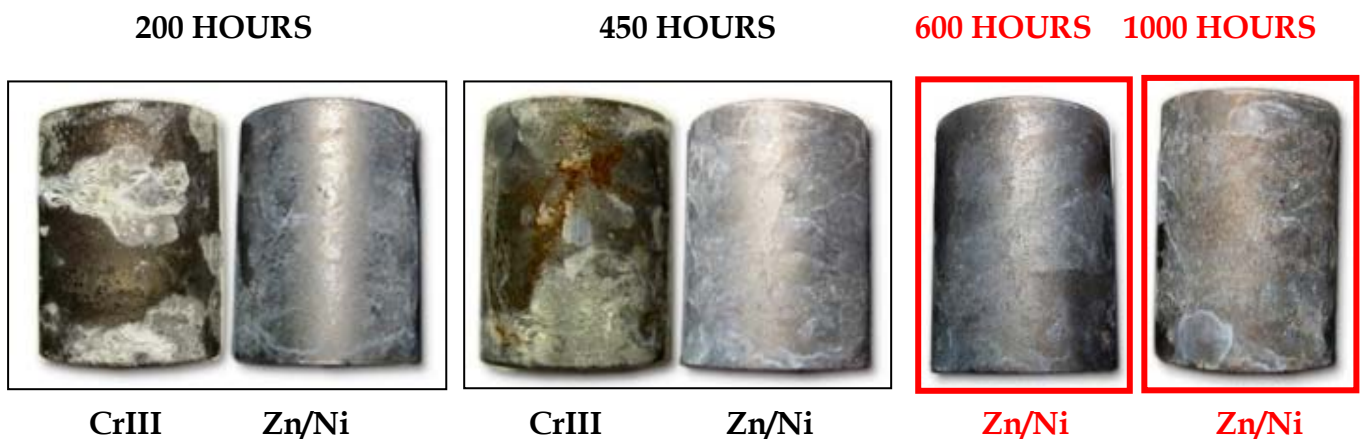
➡ PICTURE SEQUENCE 1

It shows the evolution in time, before red rust occurrence, of non-stressed parts.



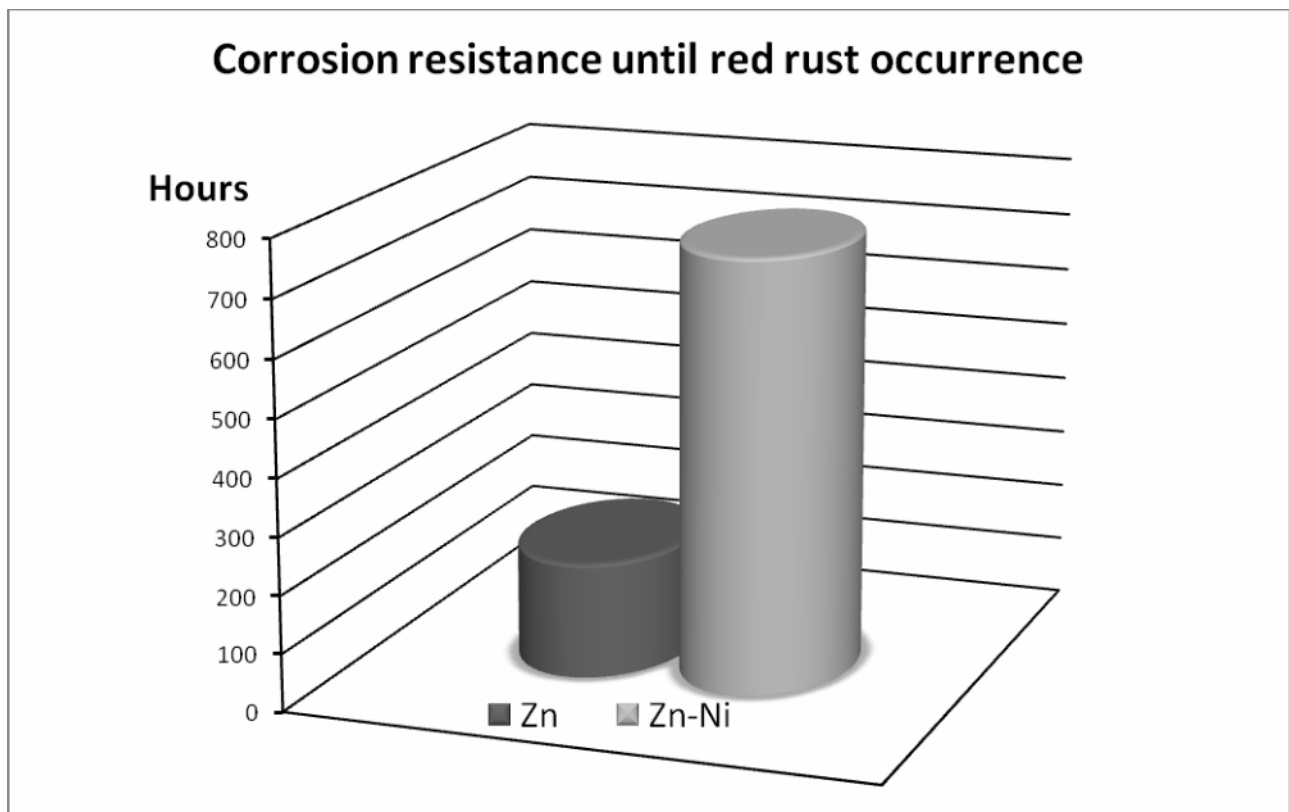
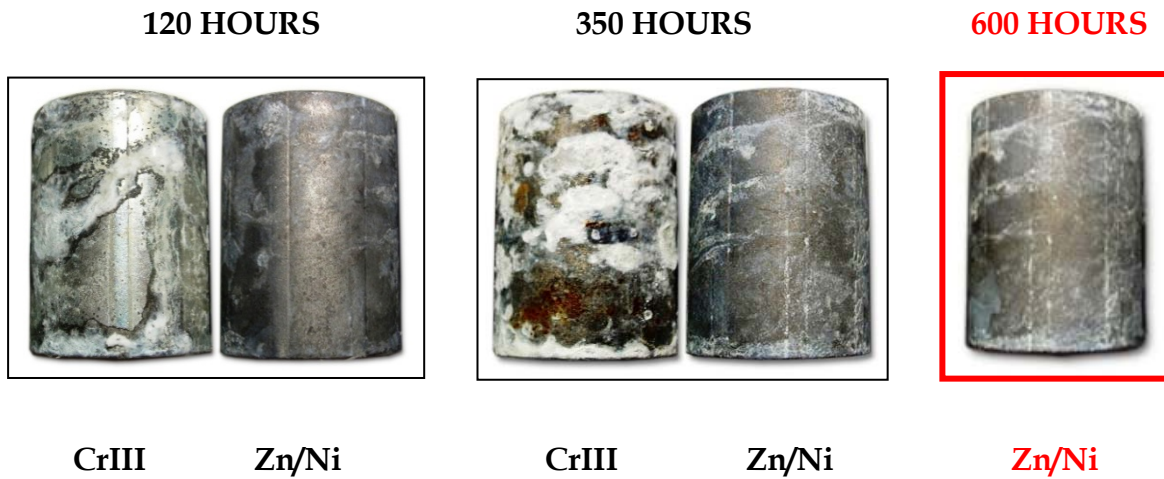
➡ PICTURE SEQUENCE 2

It shows the evolution in time, before red rust occurrence, of non-swaged ferrules.



➤ **PICTURE SEQUENCE 3**

It shows the evolution in time, before red rust occurrence, of swaged ferrules. The sequence shows the benefit of the top coating on stressed parts.



3. **BENEFITS**

WHY LARGA ZINC / NICKEL?

- **Zn/Ni plating plus top coat**
- **White rust appears only as light grey haze (no blooming effect as CrIII)**
- **Super resistance to corrosion (red rust occurrence acc. EN ISO 9227)**
 - **Non stressed parts: > 700 hours**
 - **Swaged parts: > 350 hours**
- **Ecological Chromium-free solution**
- **Torque levels unchanged**
- **Compliance with EEC directives RoHS 2002/95/CE and ELV 2000/53/CE**
- **Proven standard in the automotive industry**
- **Colour: matt grey**
- **Compatibility with all commercial hydraulic media**

4. ASSEMBLY INSTRUCTIONS ZN/NI AND CRIII

Here below the guide lines of assembly instructions with the 2 different coatings

⇒ PIPE FITTINGS

The official mounting procedure is identical in both cases:

→ nut to be tightened 1 and 1/2 turns

TIGHTENING TORQUE

The enclosed chart indicates you the average tightening torque variation mixing the 3 components of the fitting (body, nut, ring). It is clear that the preferable solution is to mount all 3 components either in Cr III or Zn/Ni.

BODY	CR III	Zn/Ni	Zn/Ni	CR III	Zn/Ni	Zn/Ni	CR III	CR III
RING	CR III	Zn/Ni	CR III	Zn/Ni	CR III	Zn/Ni	CR III	Zn/Ni
NUT	CR III	Zn/Ni	Zn/Ni	CR III	CR III	CR III	Zn/Ni	Zn/Ni
TORQUE % INDICATOR	100	100	100	110	110	125	130	130

⇒ HOSE COUPLINGS

Tightening torques values declared at page 35 of Larga catalogue ed.12 are valid if parts assembled together are 100% either Zn/Ni or CrIII.

For mixed combinations, we can only recommend to verify proper assembly, considering that torque value should increase in average as follows:

→ +20/25%

Special care should be given to small size metal/metal assembly (DKR, DKJ...).

O-ring type couplings guarantee optimal sealing.