

TERNARY ECO ALLOY PLUS®



WATER PROTECTION



T.E.A+ TERNARY ECO ALLOY PLUS[®]:

The first **revolutionary** answer to galvanic treatments and surface finishes.

- T.E.A.+[®] is an environmentally friendly, innovative intermetallic alloy.
- It is a valid alternative to classic nickel, nickel+chrome, electroless nickel plating.
- Registered trademark, property of La Tecnogalvano.

WHAT ARE THE ADVANTAGES?

- It is **highly corrosion resistant** in strong acidic or alkaline environments: thicknesses of 2-4 μm withstand ASS 96h and CASS 48h salt spray tests.
- It fulfils the limits imposed by international standards for drinking water:
 - **EN 16058** rig test (26 weeks).
 - **NSF 61** section 8- pH5 Commercial hot (82°C) for taps, sanitary fitting, HVAC.
 - **EN 16889** for professional coffee machines and other “food zone” devices.
- It allows semi-bright coatings to be obtained, which are **extremely passive**, with excellent guarantees of resistance to wear and **free from micro-cracks**.



HOW DOES THE PROCESS TAKE PLACE?

T.E.A.+[®] can be applied in rack and roto barrel galvanisation. The processing stage and the parameter values vary depending on the type of application.

- First stage: ultrasonic chemical degreasing - electrolytic degreasing.
- Second stage: neutralisation.
- Third stage: application of T.E.A.+[®].
- Fourth stage: final drying of article.

OPERATIVE PARAMETER RANGE:

- ✓ Temperature: 50 – 60 °C
- ✓ Voltage: 0.3 – 1.5 V
- ✓ Current density: 0.1 – 4 A/dm²
- ✓ Coating time: 20-50 minutes.

WHERE CAN IT BE APPLIED?

- Ideal for application in the following sectors:
 - Drink water and food (professional coffee machines and vending machines)
 - Sanitary fitting, HVAC
 - Decorative (fashion accessories)
- It is applied directly on copper, copper alloys and nickel, white bronze (T.E.A.[®] B)
- It is also used on mechanically satin-finished surfaces or with satin nickel bases.

EXCELLENT RESULTS: semi-bright coatings which maintain the colour intact, resulting in the desired decorative effects.



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