

Zinni[®] AL 650

The fastest alkaline zinc nickel process



General Metal Finishing

Corrosion resistant coatings

atotech.com

Reaching a new level in plating speed

Up to

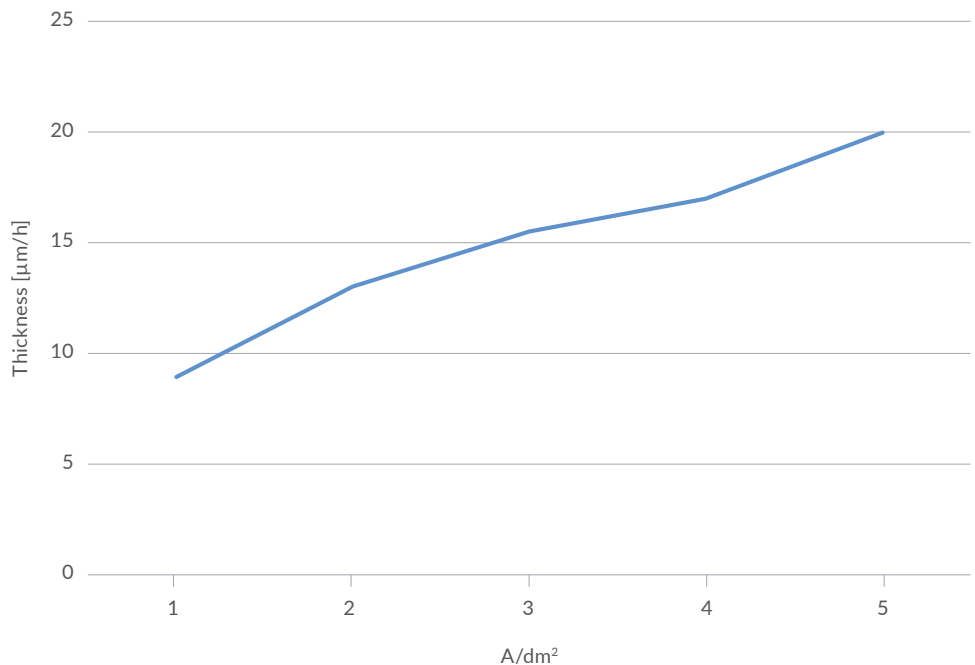
20
 $\mu\text{m/h}$

at 5 A/dm² plating speed

Fast, faster, Zinni[®] AL 650

As a leading supplier of zinc nickel processes, Atotech presents Zinni[®] AL 650, an innovative alkaline zinc nickel process designed for rack applications. Its high plating speed makes it exceptionally productive. Zinni[®] AL 650 can plate up to 20 $\mu\text{m/h}$ at 5 A/dm², even in a running bath of 70 Ah/l. The recommended current density ranges from 2 - 5 A/dm²; current densities within this range do not cause HCD burnings. In addition, Zinni[®] AL 650 is recommended for parts with complex shapes.

Zinni[®] AL 650 (after 70 Ah/l)



Homogeneous brightness over the whole current density area

Besides its fast plating speed, Zinni® AL 650 boasts with an extraordinary uniform layer thickness distribution over the whole current density area. Even in lowest current density areas, such as recessed areas, Zinni® AL 650 provides a consistently high layer thickness. This makes the new electrolyte particularly suitable for complex shaped parts frequently used in the automotive and construction industry. The additive system of Zinni® AL 650 is compatible with iron and nickel plated anodes.

Recotect® – Atotech's innovative and flexible regeneration system for alkaline zinc nickel electrolytes – further improves the efficiency and plating quality over the lifetime of the Zinni® AL 650 electrolyte.



Features and benefits

- Alkaline zinc nickel electrolyte for rack application
- High plating speed
- Stable alloy composition over the entire current density range
- Bright to semi-bright appearance
- High burning resistance
- Attractive appearance in combination with black passivates
- Very good thickness distribution over the whole current density area
- High current efficiency

