

# Tridur<sup>®</sup> ZnNi H7

Black passivate for alkaline zinc nickel



General Metal Finishing

Corrosion resistant coatings

atotech.com



## A cobalt-free deep black passivate for alkaline zinc nickel surfaces

### Decorative and functional

Tridur<sup>®</sup> ZnNi H7 is MKS' Atotech environmentally sound cobalt-free passivate for alkaline zinc nickel. The new passivate provides an outstanding homogeneous black appearance over the entire range of current densities.

Additionally, the color intensity of the new passivate does not depend on the nickel concentration. Due to a pH range of 2.0 to 3.0 during passivation, a lower level of iron and zinc is dissolved into the passivate.

Consequently, the lifetime of this single component passivate is extended compared to the market standard.

In combination with Atotech sealers and post-dips, Corrosil<sup>®</sup> Plus 319L or Tridur<sup>®</sup> Finish 300, Tridur<sup>®</sup> ZnNi H7 offers a remarkably high level of corrosion protection against white and red corrosion (240 h/1,000 h). For optimal results, Tridur<sup>®</sup> ZnNi H7 can also be combined with Atotech zinc nickel electrolytes Reflectalloy<sup>®</sup> ZNA, for rack applications and the alkaline Zinni<sup>®</sup> family for barrel applications.

# For an outstanding homogeneous black appearance



## Increased efficiency

The operating lifetime of this passivate can be further extended with Tricotect<sup>®</sup>, MKS' Atotech regeneration system that allows for the continuous and selective removal of iron and zinc contamination from passivate solutions, preventing hazing and discoloration of passivate films and ensuring a consistent high plating quality.

## Working parameters

Make-up	100 ml/l	
Temperature	25 °C	20 – 30 °C
pH	2.5	2.0 – 3.0
Immersion time	120 s	90 – 180 s
Agitation	air	air / mechanical or both
Lifetime	Up to 28 m <sup>2</sup> /l in barrel proven	

## Features and benefits

- Tricotect<sup>®</sup>-compatible
- Cobalt-free
- Good corrosion protection up to 240 h against white corrosion in combination with Tridur<sup>®</sup> Finish 300
- Very decorative homogeneous black appearance over the entire current density area
- Higher pH than usual black passivates (pH: 2.0 – 3.0)
- Single component (100 ml/l make-up)

