

Nichem[®] HP 1151

High-phosphorus electroless nickel



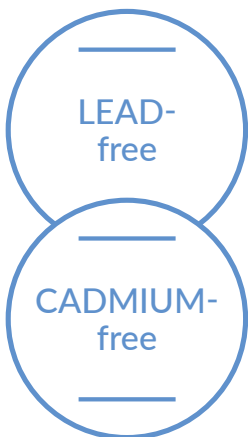
General Metal Finishing

Electroless nickel

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Raising the bar for Pb-free high-phosphorus electroless nickel

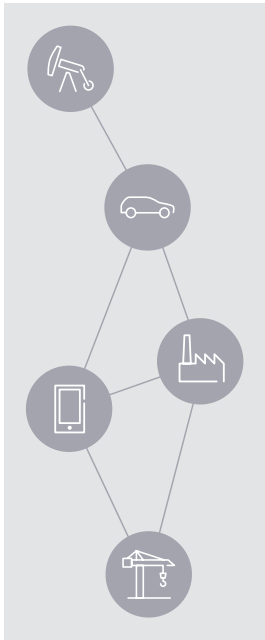


A new superior approach to corrosion prevention with electroless nickel plating

Increasing requirements for corrosion protection and chemical resistance in the market have ensured a continuous evolution of MKS' Atotech electroless nickel technology. To meet the toughest specifications and demands of different industries, Atotech has developed Nichem[®] HP 1151.

Nichem[®] HP 1151 is a high-phosphorus electroless nickel process with excellent stability and outstanding corrosion resistance, built on patented technology with a unique bath composition. A lead and cadmium-free formulation means Nichem[®] HP 1151 meets all ELV, RoHS and WEEE requirements.

Reliable and robust for highly demanding applications



Nichem® HP 1151 is our innovative high phosphorus electroless nickel technology used in many different industries worldwide.

Process properties

Nichem® HP 1151 is a high-phosphorus electroless nickel process with a unique stabilizer system designed to operate up to 6 MTOs with extraordinary bath stability. The process offers a fast plating rate and longer bath life versus Pb stabilized processes on multiple substrates. Nichem® HP 1151 has a high tolerance to metallic contamination.

Deposit properties

Nichem® HP 1151 produces nonmagnetic deposits with 10 – 12% phosphorus content. The deposit provides excellent corrosion resistance and is pit-free at high thicknesses. Nichem® HP 1151 deposits pass the nitric acid test and show consistent brightness throughout the bath life. The deposit is completely Pb and Cd-free and fulfills all requirements of ELV, RoHS and WEEE regulations.

Features and benefits

- Pb and Cd-free (ELV, RoHS and WEEE compliant)
- Patented technology
- Excellent corrosion resistance
- Outstanding robustness and bath stability
- Tolerant to extreme bath loadings
- Higher deposition rate versus lead containing process
- High tolerance to metallic contamination
- Bright and consistent appearance

