

Nichem[®] MP 1188

Mid-phosphorus electroless nickel



General Metal Finishing

Electroless nickel

atotech.com



Advanced mid-phosphorus electroless nickel for ELV, RoHS and WEEE compliance

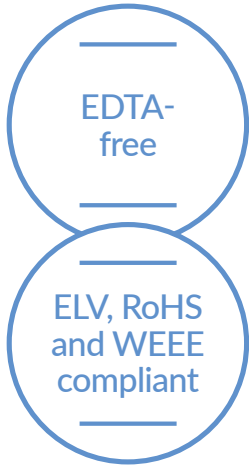
LEAD-free

CADMIUM-free

A new step forward in the world of electroless nickel plating

The modern demands of an electroless nickel plating operation are high, and the applications range anywhere from high production automotive to lower volume job shop. To fulfill all the requirements typically meant choosing an electroless nickel process specifically suited to an application, but not anymore. Atotech is proud to introduce Nichem[®] MP 1188, a fully bright and ELV, RoHS and WEEE compliant mid-phosphorus plating process capable of standing up to the highest production demands, but also with the flexibility you need to accommodate a range of surface areas and multiple substrates – all in one process!

High efficiency mid-phosphorus for remarkable low bath loading



Process properties

Nichem[®] MP 1188 is especially designed to comply with extremely low bath loading. The process has outstanding initiation on copper and brass. Another significant advantage is its high tolerance to zinc contamination thus allowing direct plating on zincated aluminum alloys throughout a prolonged bath life without sacrificing brightness or adhesion. The process is pH self-regulated to promote simplified maintenance.

Deposit properties

A Nichem[®] MP 1188 deposit contains 5 - 8% P with an as deposited hardness of 550 - 650 HV_{0.1}. It provides consistent brightness over the whole bath life and is applicable for many different metal substrates. The deposit is completely free of Pb and Cd and fulfills all requirements of ELV, RoHS and WEEE.

Features and benefits

- Pb and Cd- free (ELV and WEEE/RoHS compliant)
- Wide operation window
- Easy initiation at low surface area conditions
- Stable at high surface area conditions
- Excellent initiation on brass and copper
- Extraordinary high tolerance to zinc contamination
- Highly suited to multiple substrates
- Consistently high brightness

