

Electroless nickel

- Properties: Electroless nickel is a nickel phosphorus alloy coating, divided into low-phosphorus (high abrasion resistance), medium-phosphorus (soldering and electronics), and high-phosphorus (high corrosion protection). Plated electroless nickel has a hardness of 450 HV₁₀₀. After heating to 250 °C the hardness increases to 650 HV₁₀₀.
- Appearance: Light, matte, or shiny surface similar to stainless steel.
- Thickness of coating: 5 - 50 µm with the possibility of higher coating thickness. Uniform thickness of nickel coating on the parts both inside and outside. Plating tolerance ±10 % of coating thickness.
- Base material: Electroless nickel may be plated on steel, stainless steel, cast iron, copper, brass, aluminium, and sintered parts.
- Application: Fittings, valves, hydraulic components, electric motor parts, transmission and pump parts, sprocket wheels, wear parts on packing machines and electronic and medicinal pieces. May be partially plated on e.g. bearing surfaces.
- References: ISO 4527

