



## TECHNOLOGY DESCRIPTION

The process of electroless nickel plating, also known as chemical nickel plating, has been utilised since the 1950s to apply a nickel-phosphorus coating to surfaces. This method is applicable to all base materials except for aluminum and steel. Electroless nickel plating offers numerous advantages, including high precision and uniform plating thickness, particularly beneficial for components with complex shapes. The functional finishing of metals with electroless nickel plating called DURNI-COAT® protects metal components against wear and corrosion.



## INNOVATIVE ASPECTS

DURNI-COAT® is ideal for applications with special requirements, e.g. chemical resistance, dimensional accuracy, ideal gliding behavior, increased hardness, etc. The main coating properties are:

- Excellent corrosion resistance and good chemical resistance
- Erosion and cavitation resistance
- High resistance to wear
- Uniform coating deposition
- Good dimensional accuracy
- Excellent hardness
- Magnetic properties
- Joinability / solderability
- Conductive surface



## TECHNOLOGY READINESS (in space application)

TRL 9 (2024)

## COUNTRY OF ORIGIN

Germany

## LATEST UPDATE

06/2024

## TAGS

#coating

#protect

#electroless

#nickel plating

#metals

#wear

## APPLICATION AREAS

Aviation

Energy

Electrical &  
Electronic  
Engineering

Chemical  
Engineering &  
Biotechnology

Mechanical  
Engineering

Space  
technologies

Transport &  
Logistics

# TECH CARD

