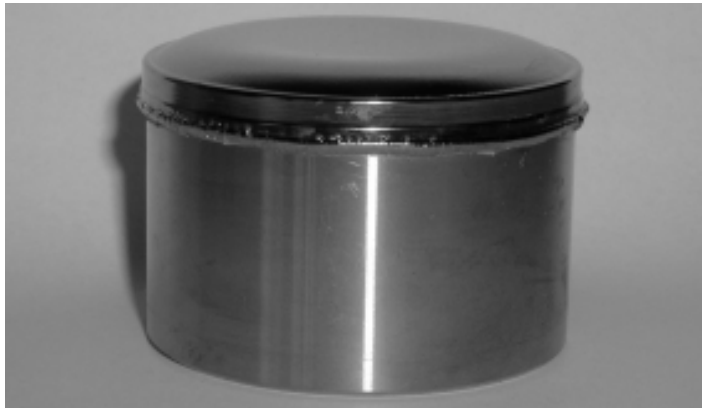


# NICKEL-PHOSPHORUS COATINGS

## FOR MICRO-SYSTEM TECHNOLOGY PRODUCTS



Micro-injection molding tools electroplated with a Nickel-Phosphorus layer before machining



Molding tool, electroplated by ELEKTROFORM with a Nickel-Phosphorus layer (after machining for production of optical lenses)

ELEKTROFORM provides Nickel-Phosphorus layers up to 4 mm for high-precision micro-tools.

If your company works in the demanding field of micro-products, then ELEKTROFORM would like to be your partner in the making of highly-specialized micro-tools (also known as inserts for micro-injection molding systems).

### How can we support your needs?

ELEKTROFORM is the market leader for *electroplating* layers of Nickel-Phosphorus.

### What are the benefits of our experience in this high-tech process?

- Deposit thickness up to 4 mm
- Simple diamond processing – optimum cutting stroke
- Longer service-life of diamond processing tools through accurate coating

### Characteristics of the galvanic Nickel-Phosphorus Coating made by ELEKTROFORM:

- Hardness DPH (Vickers) up to 600 (after heat treatment up to 900)
- Low ductility
- Amorphous, above 200°C crystalline
- Diamagnetic, 12-14 % Phosphorus
- Even better resistance against abrasion and corrosion than High-Grade-Nickel