

# NEDOX<sup>®</sup>

Synergetic Coatings



surface  
technologies

# NEDOX®

## Synergetic Coatings

### Metal finishing with NEDOX®

The synergetic NEDOX® coating is a combination of a nickel-phosphorus alloy and a bounded polymer in the topcoat by a controlled diffusion process. The polymers are fully integrated in the surface. The coating is applied very precisely and uniformly.

The NEDOX® process produces a hard, smooth and self-lubricating surface with a high protection of most metals (including aluminum) against wear and corrosion. NEDOX® has a high chemical stability, durable non-stick and anti-static properties.

### Properties of NEDOX® coatings

Aalberts Surface Technologies B.V. implements several NEDOX® coating variants with unique properties:

- Excellent non-stick properties
- Increase of surface hardness
- Resistance against corrosion, chemicals and other environmental circumstances
- Prevention of abrasive wear and galling
- Resists static buildup
- Provides superior mold release
- Permanently dry-lubrication for very low COF
- Meets FDA and USDA regulations
- Meets and exceeds requirements for AMS 2404 and AMS-C-26074

### Areas of application for NEDOX®

As a versatile product, NEDOX® is widely used as an industrial coating in automotive, power (oil and gas), semiconductor, aerospace, pharmaceutical and pneumatic industries. Some variants of our coating solution comply with food regulations and are therefore ideal for components used in the food industry and packaging sector.

The NEDOX® coating is suitable for a wide range of materials, such as

- different steel types incl stainless steel;
- non-ferrous metals such as copper, brass or bronze;
- aluminum alloys;
- exotic metals, for example titanium.

### NEDOX® variants

Aalberts Surface Technologies can offer you five different types of coatings within the NEDOX® family. Each of them has some unique characteristics. Our specialist can advise you choosing the right type to meet your requirements.

NEDOX® SF2: standard

NEDOX® SF2R: improved non-stick release properties

NEDOX® CR+: improved chemical resistance

NEDOX® 10K3: high temperature resistant and fluor-polymer free

HMF®: improved smoother surface

