

_Chromium Oxide

Purpose of Coatings

Protection from:	Corrosion protection
Abrasion	Laser engraved surfaces
Erosion	
Sliding wear	

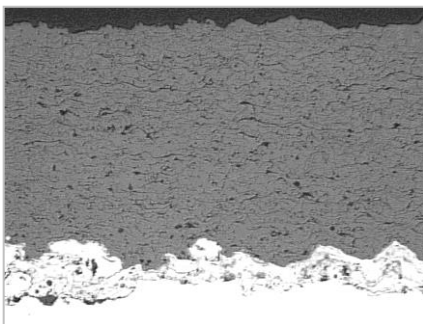
Application

Plungers	Piston rods
Sliding bearing parts	Sealing parts
Guides	Pulleys
Extruders	Shaft protection sleeves
Ink transfer rollers	

Features

Coating thickness:	D = 0.1...0.5 mm
Porosity:	Φ < 2...5 %
Roughness as sprayed:	R _z = 20...40 μ m
Roughness polished:	R _a \approx 0.2 μ m

- Pressure-tightness > 700 MPa (sealed)
- Very good chemical resistance in both acid and alkalic media
- Good laser engraving



Chemical Specification

Cr₂O₃
 Cr₂O₃ / TiO₂
 Cr₂O₃ / SiO₂ / TiO₂

Physical Specification

Hardness: ~ 1300 HV_{0.3}
 Density (theor.): 5.2 g/cm³
 Adhesive Tensile Strength
 (EN ISO 14916): > 35 N/mm²
 Operat. temperature: > 600 °C

Spray Technology

APS: Plasma spraying