

Purpose of Coatings

Protection from:	Corrosion protection
Abrasion	Electrical isolation
Erosion	
Sliding wear	

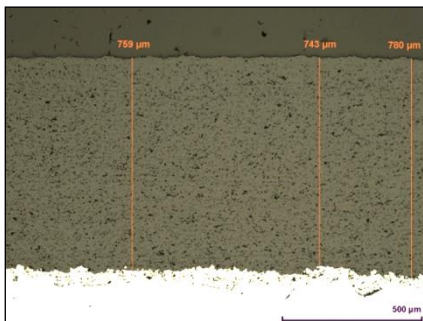
Application

Thread guide rollers	Galettes
Guide rollers	Ink transfer rollers
Plungers	Piston rods
Guides	Shaft protection sleeves
Claws	Isolated bearings
Drive shafts	

Features

Coating thickness:	D = 0.1...> 1 mm
Porosity:	Φ < 1...5 %
Roughness as sprayed:	R _z = 20...40 μ m
Roughness polished:	R _a \approx 0.2 μ m

- Very good chemical resistance in both acid and alkalic media
- Increasing toughness and decreasing hardness with rising content of titanium oxides
- Thermal shock resistance up to appr. 1000 °C
- High electric strength for aluminium oxide



Chemical Specification

Al₂O₃
Al₂O₃ / TiO₂
TiO₂

Physical Specification

Hardness: up to 1400 HV_{0.3}
Density (theor.): 3.4...4.3 g/cm³
Tensile Adhesive Strength (EN ISO 14916): > 35 N/mm²
Operat. temperature: ~ 1000 °C

Spraying Technology

APS: Plasma spraying