Fluoropolymer coating

Optimized FEP coating type N(T) 21

Properties

- Hydrophobic and oleophobic surface
- Excellent non-stick coating
- Optimal ratio of friction coefficient and abrasion resistance
- Improved resistance to wear
- Minimal coating thickness
- 1 or 2 layer application possible
- High temperature stability (up to 205°C long-term use)
- Hard and abrasion-resistant surface
- Electrically insulating surface
- Approved for food items
- Approved for medical technology (turquoise)

Physical properties	
Non-stick	excellent
Contact angle to water	ns
Contact angle to hexadecane	ns
Heat resistance	up to 205°C
Colour	turquoise-green, black on request

Substrate materials	
Stainless steel	yes
Aluminium	yes
Non-ferrous metals	partly
Glass	yes
Plastics	partly

Chemical resistance	
Solvents	excellent
Organic acids and oils	excellent
Inorganic acids	very good
Inorganic bases	good

Coating process	
Coating thickness	20 ±5 µm per layer
Dipping process	no
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	375 – 420°C

Fields of application

- Diagnostics: Chemically resistant outside coating for needles, lowering the coefficient of friction for cup-piercing, coating of needles and wires for medical technology
- Chromatography: Lowering the coefficient of friction for cup-piercing
- Industry / general: Coating of bolts and parts for food industry (forms)

NANOSOL AG | Landstrasse 16 | 9496 Balzers | Liechtenstein | +423 375 79 50 | +423 375 79 55
info@nanosol.com | www.nanosol.com