Fluoropolymer coating

Optimized PTFE coating type N(T) 7

Properties

- Hydrophobic and oleophobic surface
- Excellent non-stick coating
- Optimal ratio of low coefficient of friction and abrasion resistance
- Minimal coating thickness
- High temperature stability (up to 260°C in long-term use)
- Hard and abrasion resistant surface
- Electrically insulating surface

Physical properties	
Non-stick	excellent
Contact angle to water	ns
Contact angle to hexadecane	ns
Heat resistance	up to 285°C
Colour	mouse grey, other colours 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	15- 25 µm
Dipping process	no
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	220 – 350°C

Fields of application

- Diagnostics: Chemical resistant outside coating on needles, lowering the coefficient of friction at cup piercing
- Chromatography: Lowering the coefficient of friction at cup piercing
- Industry / general: Coating of bolts, lowering the coefficient of friction, hard non-stick coating also at high temperatures

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