

Fluoropolymer coating

PES/PTFE coating type N(T) 1

Properties

- Hydrophobic and oleophobic surface
- Non-stick coating
- Minimal coating thickness
- High temperature stability (up to 230°C long-term use)
- Hard and abrasion-resistant surface
- Electrically insulating surface
- Approved for food items

Physical properties	
Non-stick	very good
Contact angle to water	approx. 110°
Contact angle to hexadecane	> 60°
Heat resistance	up to 250°C
Colour	black, other colours on request

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

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

Coating process	
Coating thickness	15 - >40 µm
Dipping process	no
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	250 – 420°C

Fields of application

- **Diagnostics:** Insulating outer coatings on hollow needles, Improvement of dripping behaviour, Reduction of sliding resistance with cup piercing
- **Chromatography:** Reduction of sliding resistance with cup piercing
- **Industry / general:** Coating of panel plates, Reduction of sliding values, Non-stick coating of cooking and baking utensils

The information in this datasheet is based on data from our suppliers, feedback from customers and our research. The information is non-binding and for information purpose only. Specific, technical and chemical investigations are gladly carried out according to our customers' specifications.