

Fluoropolymer coating

PFA-3 coating system type N(T) 20

Properties

- Hydrophobic and oleophobic surface
- Very good non-stick coating
- Good abrasion resistance
- Excellent chemical resistance
- Excellent temperature stability (up to 260°C long-term use)
- Excellent permeation resistance
- Electrically insulating surface
- Permitted for food items (depending on structure)

Physical properties	
Non-stick	very good
Contact angle to water	ns
Contact angle to hexadecane	ns
Heat resistance	up to 290°C
Colour	ruby-red

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

Substrate materials	
Stainless steel	yes
Aluminium	partly
Non-ferrous metals	partly
Glass	partly
Plastics	no

Coating process	
Coating thickness	100 + µm
Dipping process	no
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	380 °C

Fields of application

- **Diagnostics:** Chemically resistant outside coating with hydrophobic and oleophobic properties. Reduces the permeation.
- **Chromatography:** ns
- **Industry / general:** Coating of parts in aggressive environment. Corrosion and chemical resistance in high temperature usage with very good non-stick properties. It is possible to apply with a coating thickness of several 100µm.

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.

NANOSOL AG | Landstrasse 16 | 9496 Balzers | Liechtenstein | 📞 +423 375 79 50 | 📠 +423 375 79 55

✉ info@nanosol.com | 🌐 www.nanosol.com