

Sol-Gel-Nanocomposite coating

Modified silicon oxide-Sol type N(H) 17

Properties

- Hydrophobic and oleophobic surface
- Easy-to-clean coating
- High temperature stability
- Hard and abrasion resistant surface
- Increased solid content

Physical properties	
Non-stick	very good
Contact angle to water	> 105°
Contact angle to hexadecane	> 65°
Heat resistance	up to 200°C
Colour	colourless, transparent

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

Substrate materials	
Stainless steel	yes
Aluminium	yes
Steel, nickel, chrome, zinc	yes
Glass/ceramics	yes
Plastics	no

Coating technology	
Coating thickness	up to 5 µm
Dipping process	yes
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	150 - 180°C

Fields of application

- **Diagnostics:** Oleophobic and hydrophobic coating of hollow needles for tests with weakly acidic media. Very good drip off properties, also with alcoholic media.
- **Industry / general:** Abrasion resistant easy-to-clean surfaces, easy cleaning of fingerprints and calcium deposits, reducing agency of water. Increase the coating thickness for even longer lifetime.

The information on the 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.