

## Sol-Gel-Nanocomposite coating

## Surface modified SiO<sub>2</sub> particles type N(N) 9

## **Properties**

- Hydrophilic surface
- Complete dissolving of water
- Minimal coating thickness
- Very high temperature stability

Physical properties	
Water dissolving	very good
Contact angle to water	<10°
Contact angle to hexadecane	ns
Heat resistance	up to 290°C

Chemical resistance	
Solvents	good
Organic acids and oils	good
Inorganic acids	partly
Inorganic bases	weak

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

Coating process	
Coating thickness	1μm – 2 μm
Dipping process	yes
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	room temperature – 500°C

## Fields of application

Diagnostics: Hydrophilic surface coating of needles to reduce bubbles on the inner surface

Industry / general: Creating hydrophilic surfaces for various applications

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.