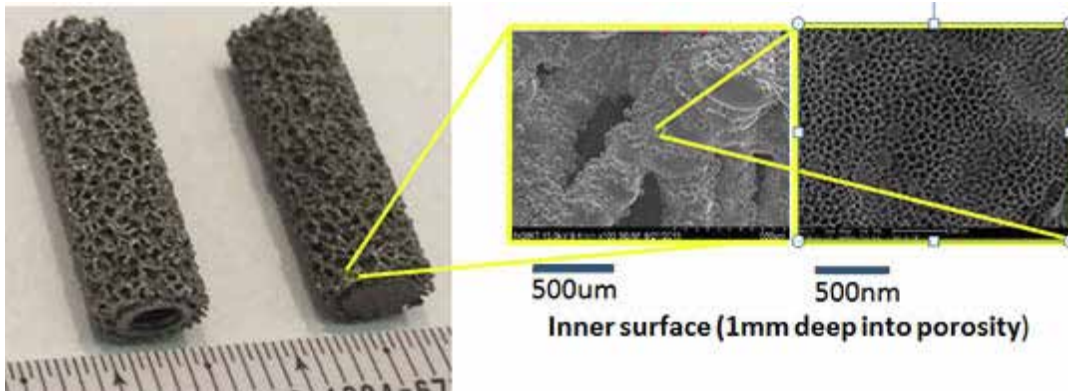


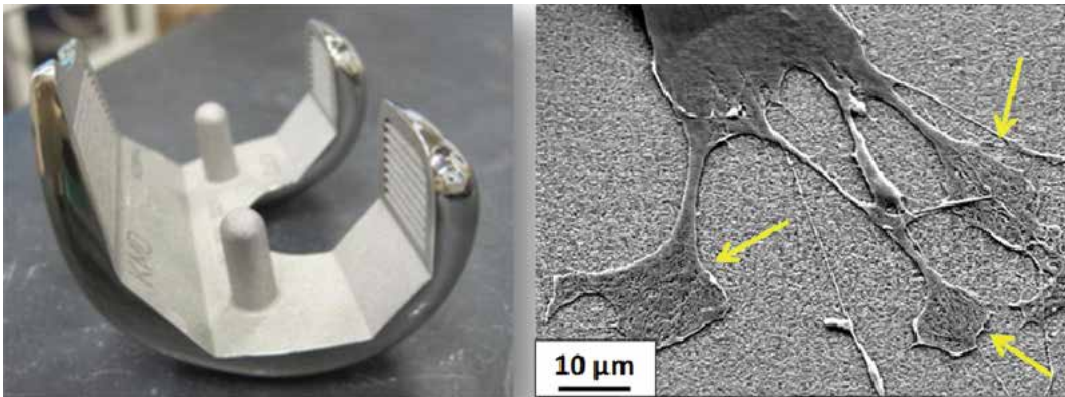
OsseoArray™

Mesoporous TiO₂ Coating on PEEK

OsseoArray™ surface treatment technology produces a large number of TiO₂ nanotube structures on the surface of all types of pure or alloyed Ti-based implants, including devices manufactured using additive processes. The OsseoArray™ coatings enhance several key surface properties of the implant including osseointegration, osseointegration, and antimicrobial barrier to reduce infection. Our goal is to help OEMs in spinal and orthopedic industries to efficiently and cost-effectively integrate nanotechnologies to their existing technological platforms, thereby strengthening their competitiveness and positively impact patient care.



Millions of TiO₂ nanotubes on the implant surface create a super-hydrophilic nano-interface that attracts the cell outer membrane which enhances both osseointegration and osseointegration..



Elongated cell morphology characteristic of osteoblasts on TiO₂ nanotubes

N2 BIOMEDICAL



surface science for life

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www.n2bio.com



Surface Treatment and Coating Solutions

N2 Biomedical provides surface engineering services to enhance materials performance and device functionality for the medical and life science industry.

Our ongoing research and development programs for advanced surface treatment technologies and processes uniquely qualifies N2 Biomedical as your complete, competitive, and responsive resource for all surface modification needs.

We focus on each customer's individual needs as we proactively seek solutions by providing superior technology linked to comprehensive support. Highly trained application specialists work with customers from concept to full production - ensuring that surface treatments meet the design criteria and unique demands of the medical device industry.

To learn more please visit: www.n2bio.com

Application Guide	Aesthetics	Biocompatibility	Corrosion Resistance	Diffusion Barrier	Electrical Properties	Wear Resistance	Infection Resistance	Lubricity / Friction	Osseointegration	Radiopacity	Thromboresistance
IonGuard			●			●		●			
Spi-Argent	●	●					●	●			●
Spi-Polymer		●					●	●			●
Spi-Met	●	●	●	●	●			●	●		
Spi-Ceramic		●	●	●	●	●		●	●		
Spi-Sight										●	
IonTite		●							●		
Spi-Spectrum	●							●			
PEEKGuard	●	●		●	●	●			●		
IonGlide		●	●			●		●			
OsseoArray		●					●		●		
OsseoPEEK Mesoporous	●	●					●		●		

