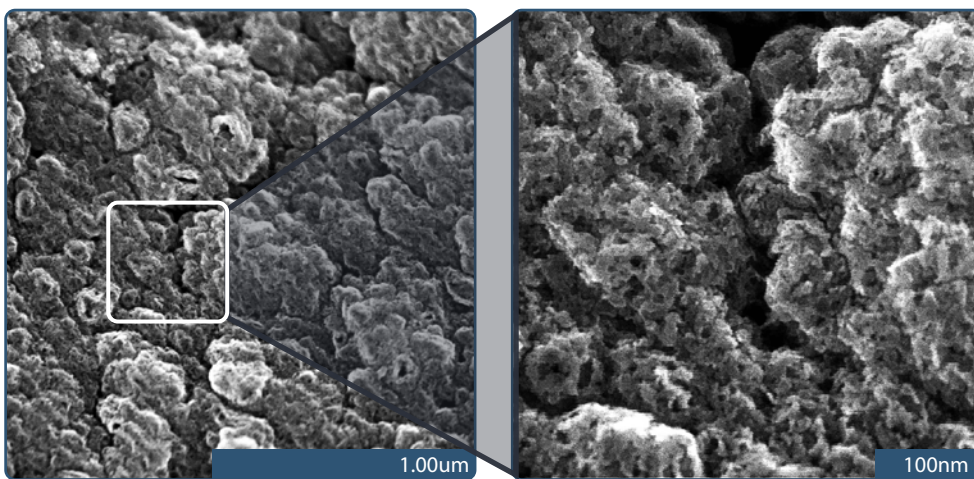


OsseoPEEK™ *Mesoporous*

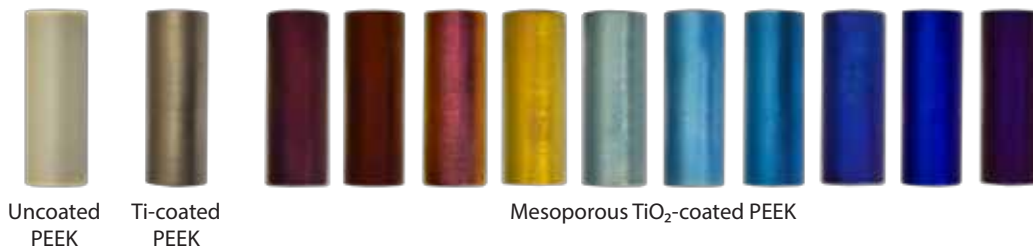
Mesoporous TiO₂ Coating on PEEK

OsseoPEEK™ Mesoporous TiO₂ coatings are produced using a proprietary surface texturing process developed at N2 Biomedical to enhance the osseo-integrative properties of PEEK implant surfaces. As compared to our PEEKGuard™ coatings, the OsseoPEEK Mesoporous offers a higher degree of surface texturing in the 1 to 50nm range. The very large surface area of the mesoporous structure can result in preferential osteoblast differentiation and may also be used as a medium to deliver biologics and drugs from the surface of the implant itself. Additionally our OsseoPEEK Mesoporous coatings come in different colors suitable for product differentiation.



Features and Benefits

- Improves biocompatibility of PEEK
- Enhances Osseo-induction
- Enhances Osseo-integration
- Increases surface area
- Potential medium for drug and biologics delivery
- Offers product differentiation



N2 BIOMEDICAL



surface science for life

N2 Biomedical, LLC • One Patriots Park, Bedford, MA 01730-2396
Tel: 781-275-6001 • email: info@n2bio.com
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		●	●			●		●			

