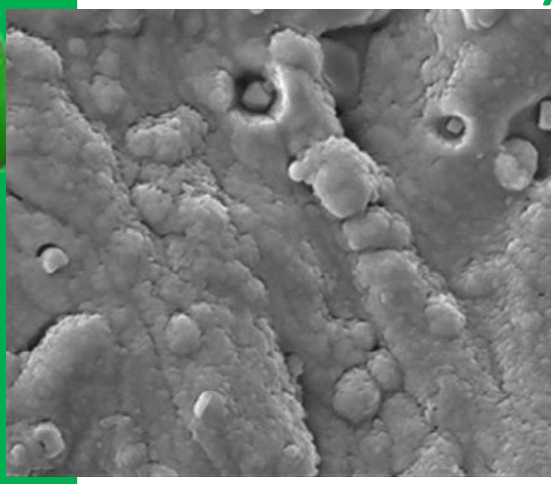
ClariVy™ NanoVy™ Ti

Cervical IBF System

Versatile Sizing

Footprints: 12x10, 14x11, 16x14
Heights: 4-11mm
Lordosis: 0° and 7°

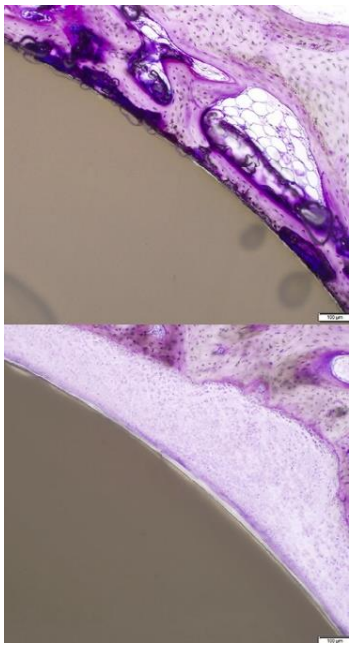
NanoVy™ Ti Coating



NanoVy™ Ti is a nano coating of CP Titanium onto the surface of the LumiVy™ PEEK polymer. The NanoVy™ Ti coating is a mere 0.5microns thick, and intimately follows the contours on the LumiVy™ PEEK part. The NanoVy™ Ti greatly improves the performance of the native PEEK polymer, making for a superior implant.

VySpine™

ClariVy™ NanoVy™ Ti Cervical IBF System



Better Bony Apposition

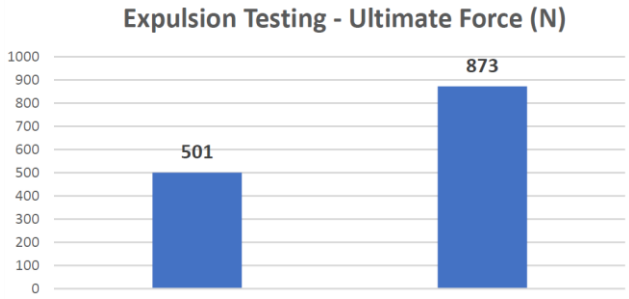
At 4 weeks, and again at 8 weeks, the PEEK implant with NanoVy™ Ti coating (top picture) demonstrates much better bony apposition in comparison to a native PEEK implant (bottom picture). Additionally, there is a significant reduction in fibrous tissue when comparing the PEEK implant with NanoVy™ Ti coating (top picture) to the native PEEK implant (bottom picture).

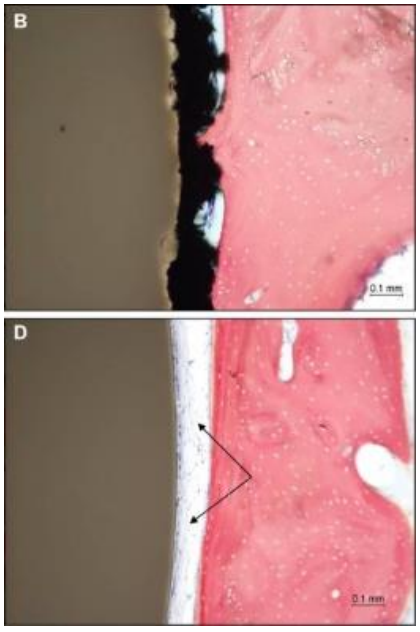
Unlike plasma spray coatings, the NanoVy™ Ti covers the entire implant, not just the endplates. This means that the interior walls and exterior walls are coated in NanoVy™ Ti leading to the ability for bone to cascade across the entire implant.

Spine J_18_(2018)_ Walsh B et al, The in vivo response to a novel Ti coatifn compared twith PEEK-evlauation of the periphery and inner surfaces of an implant, p1237, ©2018. (Note Nanometalene is another brand name for NanoVy Ti, data based on in vivo studies)

Superior Initial Fixation

In an expulsion test of NanoVy™ Ti coated implants, the force required to expulse the implant with NanoVy™ Ti coating required 74% more force than the uncoated PEEK implant.





Osseointegration without Compromise

NanoVy™ Ti coated implants have demonstrated significant reduction in fibrous layer associated with uncoated PEEK implants. This is achieved without reducing the radiolucency or altering the modulus of elasticity of the PEEK implant.
Unlike other titanium spray or plasma coating, NanoVy™ Ti coatings have demonstrated excellent adherence to the PEEK substrate, exhibiting little to no de-lamination, even during impaction against bony surfaces.

Vy Spine™, LLC
PO Box 1693
Bountiful, UT 84011
866-4-VY-SPINE
www.VySpine.com

02-BRO-PET Rev A Dec 2023