

implaFix[®] coating

cpTi commercially pure titanium coating

cpTi is applied to implant fixation surfaces to provide rough and porous areas which promote bone growth onto and/or into a device. Thus cpTi is responsible for the mechanical anchoring of the implant to bone.

The porous cpTi layer is applied to an implant via a plasma spraying process: An inert gas (argon) mixture is heated by a high-energy arc and is ionised / converted into a plasma which then is forced through a nozzle-shaped anode at high speed. As this high temperature plasma flame emerges, the cpTi powder particles are added to it and are melted before they are able to collide with the implant substrate surfaces being coated. The high speed collisions between the cpTi particles and the implant produce a layer which is securely fixed.



Facts implaFix[®]:

- color: grey
- layer thickness: 100µm-350µm (depending on implant design)
- roughness: 17-55µm (depending on implant design)
- porosity: 15% -30% (depending on implant design)
- adhesion strength: > 22MPa