CeSpace™XP Interbody System

Product Brochure

Aesculap Spine

AESCULAP®
Implant Systems

New surface. New level of fusion.

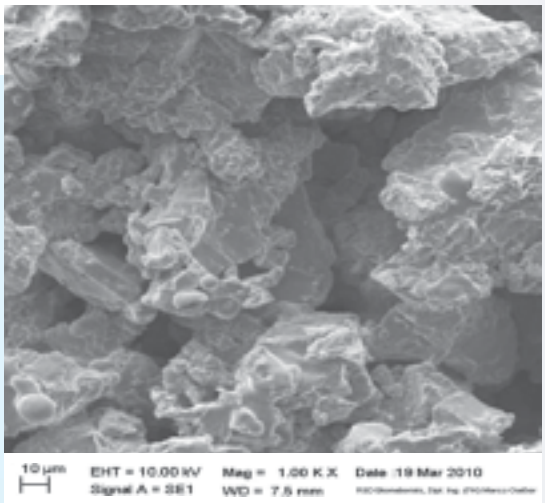
CeSpace™XP Interbody System

Plasmapore®XP is an osteoconductive porous Titanium coating. PEEK-Optima® is a radiolucent core. CeSpace^XP is a perfect fusion of enhanced implant stability, artifact-free imaging, and an optimal scaffold for cervical fusions.

- Plasmapore^XP osteoconductive porous Titanium coating over PEEK-Optima core
- Superior and inferior ridges plus roughened surface deliver enhanced stability
- 30 size options ensure compatibility with varying patient anatomies
- Generous graft window for packing of bone graft material
- X-Ray marker pins in combination with Plasmapore^XP allow optimal imaging
- Individually sterile-packed to ensure safety
- Comprehensive and easy-to-use instrumentation

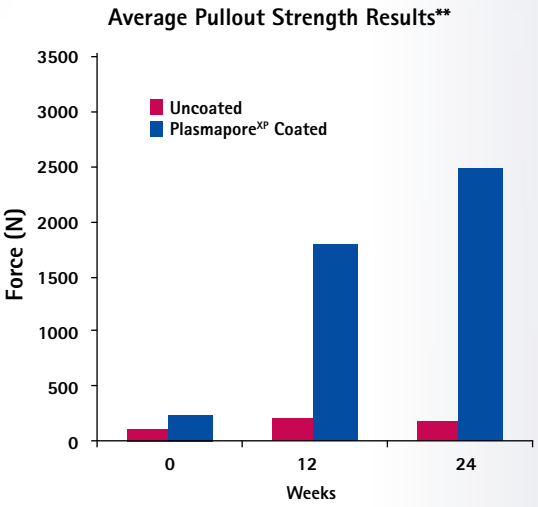
Visit **aesculapimplantsystems.com/CeSpace^XP** to experience CeSpace^XP in motion and view complete system information.

PEEK-Optima is a registered trademark of Invibio Biomaterial Solutions.



Plasmapore^{XP} Porous Titanium Coating

Thickness: 60-150 µm • Porosity: 35-60% • Tissue-compatible



Plasmapore®^{XP} Surface-Enhancing Technology

The ideal complement to the CeSpace™^{XP} PEEK-Optima implant core, Plasmapore^{XP} is an osteoconductive porous Titanium coating delivering a number of operational advantages:

Built on Experience

The design advantages of CeSpace^{XP} are the result of 30 years of innovation in spinal technology and 20 years of success in applying Plasmapore® coatings to Titanium orthopedic and spine implants.

Improved Implant Stability

Roughened porous coating allows a greater surface area of the implant to be in direct contact with bone, which leads to higher mechanical strength. Plasmapore^{XP} is shown to have over six times the pullout strength at 12 weeks and over nine times the pullout strength at 24 weeks compared to PEEK.**

High Adhesion Strength

Mechanical testing studies reveal that the adhesion strength of Plasmapore^{XP} to PEEK exceeds the shear and tensile strength of PEEK.*

Increased Migration Resistance

Testing has shown that the addition of Plasmapore^{XP} to PEEK increases resistance to expulsion of the implant.*

Exceptional Imaging Properties

Designed to allow for clear delineation of implant contours during intraoperative and postoperative imaging, Plasmapore^{XP} provides excellent visibility.

Indications & Contraindications

Indications & Intended Use

- Indicated as an Intervertebral body fusion device designed for use with autogenous bone graft
- Intended for spinal fusion procedures at one level in the cervical spine from C3-C7
- Indicated for use in skeletally mature patients with degenerative disc disease (DDD). DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.
- Intended for use with supplemental spinal fixation systems such as the Aesculap S$^{4®}$ System
- Patients must have undergone a regimen of at least six weeks of non-operative treatment prior to being treated with the Aesculap Implant Systems device

Contraindications

- Acute or chronic infections or severe defects of the osseous structures of the vertebral bodies, which need to be sound for the stable implantation of PEEK devices
- Bone tumors in the region of the implant anchoring
- Unwillingness or inability of the patient to follow the instructions for postoperative treatment
- Any medical or surgical condition that could preclude the potential success of the implantation
- Pregnancy
- Osteoporosis or similar bone density loss
- Systemic or metabolic illnesses
- Drug abuse or alcoholism
- Generally poor condition of the patient
- Adiposity
- Psychosocial issues; lack of cooperation by the patient
- All cases that are not listed under indications

**Data on file.*

***Cheng, Boyle. Biomechanical pullout strength and histology of Plasmapore^{XP} Coated Implants: Ovine multi time point survival study. Aesculap Implant Systems, Whitepaper, 2013 (ART129).*

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