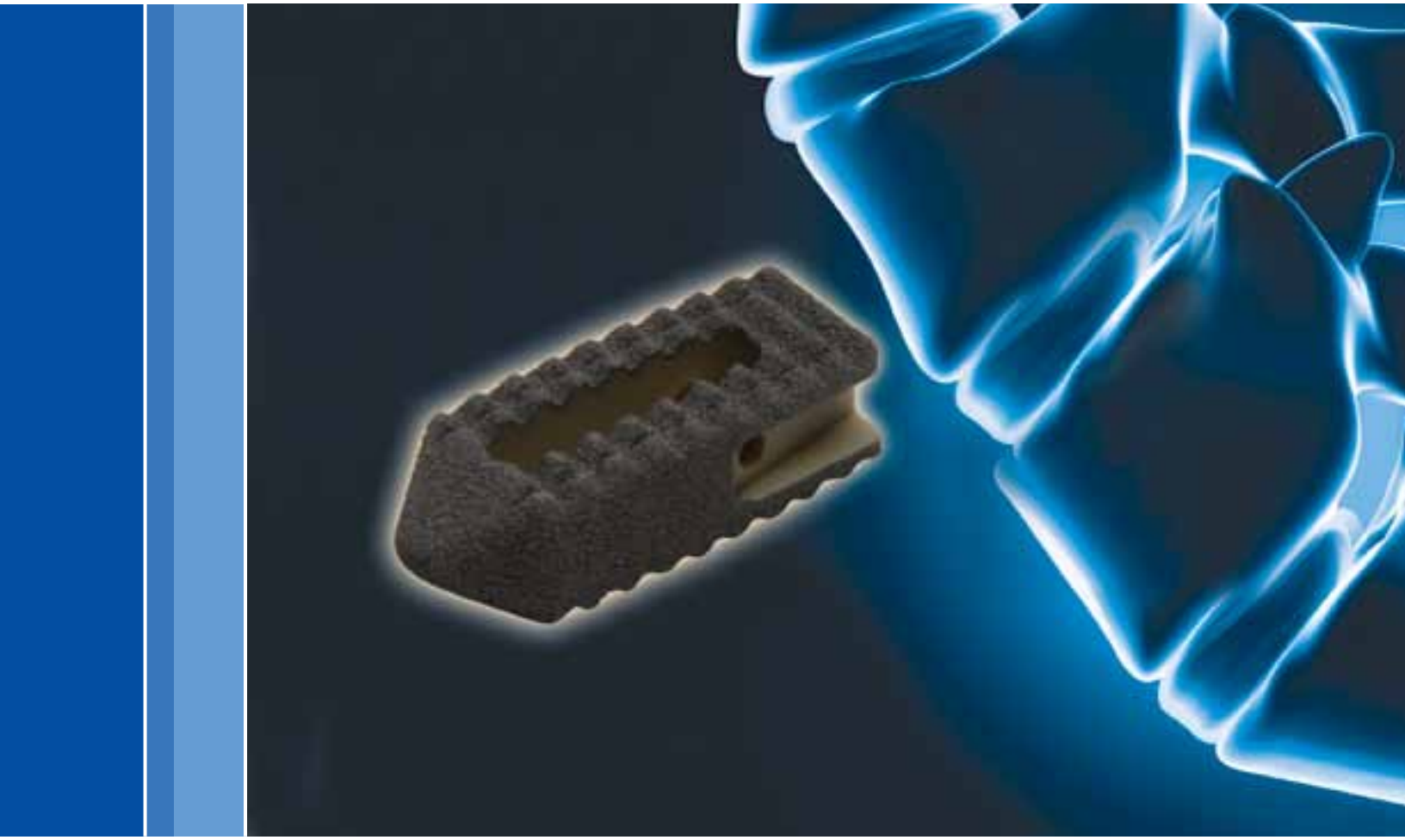
ProSpace™XP Interbody System

Product Brochure



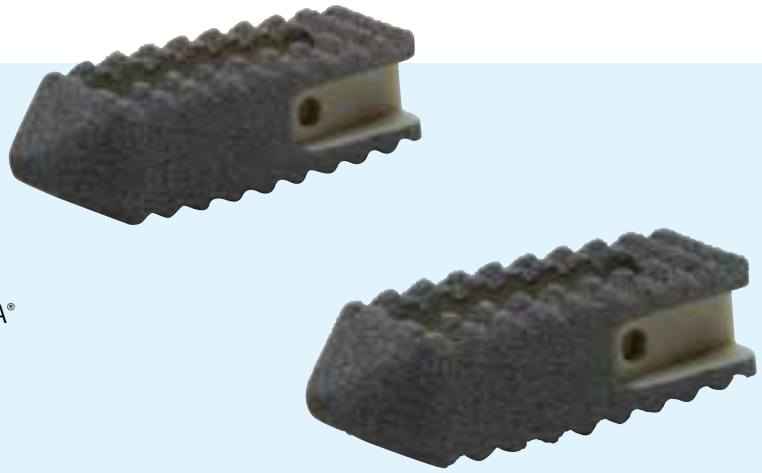
Aesculap Spine

AESCULAP®
Implant Systems

New surface. New level of fusion.

ProSpace™XP Interbody System

The ProSpace^{XP} Interbody System brings an innovative surface enhancing technology, Plasmapore®^{XP}, to PLIF (Posterior Lumbar Interbody Fusion) procedures. The combination of a PEEK-OPTIMA® core with the osteoconductive Plasmapore^{XP} coating delivers enhanced implant stability, artifact free visualization, and proven biocompatibility.



Design Advantages:

- Plasmapore^{XP} osteoconductive porous Titanium coating over PEEK-Optima core
- Aggressive teeth and roughened surface deliver enhanced implant stability and help prevent implant migration
- Over 40 size options ensure optimized implant fit and compatibility with varying patient anatomies
- X-Ray marker pins in combination with Plasmapore^{XP} allow for optimal imaging
- Inserter design allows for safe and secure connection to implant and easy insertion in a variety of approaches
- Individually sterile-packed to ensure safety
- Comprehensive and easy-to-use instrumentation

Implant Options:

8.5 mm Width ProSpace^{XP}

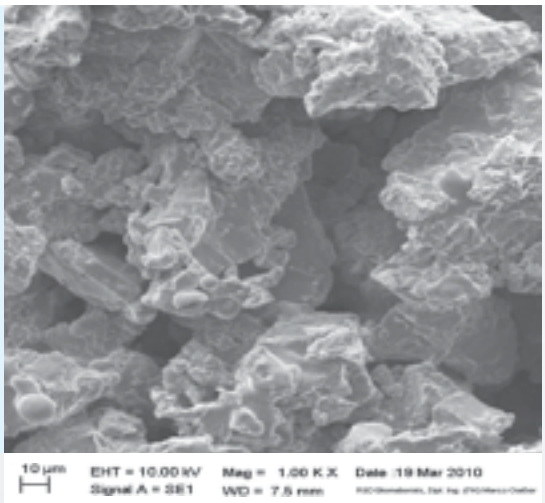
8.5 mm x 22 mm Footprint (Width x Length)				8.5 mm x 26 mm Footprint (Width x Length)			
Height	Lordosis			Height	Lordosis		
	0°	5°	8°		0°	5°	8°
7 mm	SO107P	SO117P		7 mm	SO137P	SO147P	
8 mm	SO108P	SO118P	SO128P	8 mm	SO138P	SO148P	SO158P
9 mm	SO109P	SO119P	SO129P	9 mm	SO139P	SO149P	SO159P
10 mm	SO110P	SO120P	SO130P				
11 mm	SO111P	SO121P	SO131P				

10.5 mm Width ProSpace^{XP}

10.5 mm x 22 mm Footprint (Width x Length)				10.5 mm x 26 mm Footprint (Width x Length)			
Height	Lordosis			Height	Lordosis		
	0°	5°	8°		0°	5°	8°
10 mm	SO410P	SO420P	SO430P	10 mm	SO440P	SO450P	SO460P
11 mm	SO411P	SO421P	SO431P	11 mm	SO441P	SO451P	SO461P
12 mm	SO412P	SO422P	SO432P	12 mm	SO442P	SO452P	SO462P
13 mm	SO413P	SO423P	SO433P	13 mm	SO443P	SO453P	SO463P

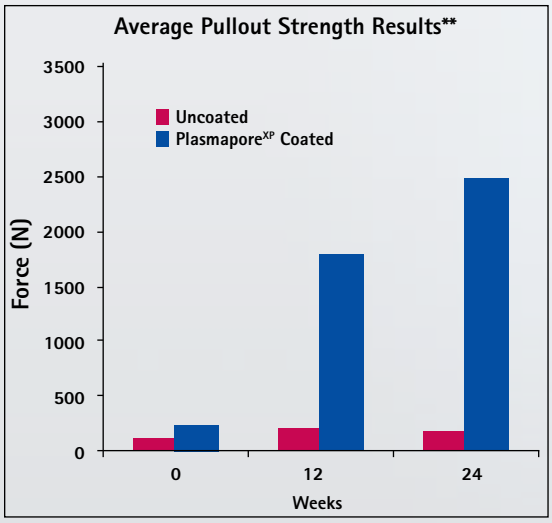
Visit **aesculapimplantsystems.com/ProSpace^{XP}** to experience ProSpace^{XP} in motion and view complete system information.

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 ProSpace™^{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 ProSpace^{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

The 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 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 or two levels in the lumbar spine (L2-S1)
- 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 months of non-operative treatment prior to being treated with the Aesculap Implant Systems device

** 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).*

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

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