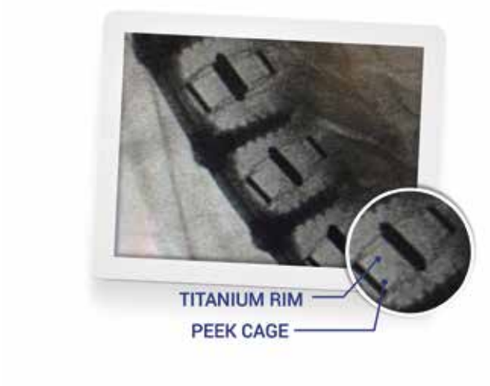
DIAGNOSTIC ASSESSMENT

The appropriate combination of Titanium and PEEK in TiPEEK cages allows a **clear fusion evaluation**.



Clear radiographic evaluation.
While maintaining the radiolucency of PEEK, the superficial Titanium "halo" represents a marker for cage positioning during surgery.

TiPEEK **CT** translucency and **MRI satisfactory bioimaging** facilitate the fusion assesment.

COMPREHENSIVE RANGE OF IMPLANTS

The TiPEEK lumbar **posterior IBFD** and **anterior cages**, as well as **cervical devices**, are available in numerous footprints, heights, and sagittal profiles to accommodate various patients' needs.



REFERENCES

[1] M.Rickert et al. Transforaminal lumbar interbody fusion in PEEK oblique cages with and without titanium coating: results from a randomized clinical trial ***[2]*** *B.Walsh et al. Titanium coated interbody devices* ***[3]*** *M. Rauschmann et al, Osteoporotic patients in spine surgery* ***[4]*** *Withmore et al. J Spine Neurosurg 2013, 2:4* ***[5]*** *] Wang JC Spine 1 August 1998 - Volume 23 - Issue 15 - p 1684–1688* ***[6]*** *] Kuhn JL, et al.. Comparison of the trabecular and cortical tissue moduli from human iliac crests. J Orthop Res. 1989;7(6):876-84* ***[7]*** *Babyn JD et al. Characterization of a new porous tantalum biomaterial for reconstructive orthopaedics. Proceedings of AAOS, Anaheim, CA. 1999* ***[8]*** *Sagomonyants KB, Biomaterials 29 (2008) 1563-1572* ***[9]*** *Chen et al. Comparison of titanium and polyetheretherketone (PEEK) cages in the surgical treatment of multilevel cervical spondylotic myelopathy: a prospective, randomized, control study with over 7-year follow-up. Eur Spine J. 2013 Jul;22(7):1539-46* ***[10]*** *Buser D et al. J Biomed Mater Res 1991;25(7):889-902.*

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MectaLIF® TiPEEK Leaflet
99.44TIPEEK.11US
rev.00
Last update: July 2017

MectaLIF® TIPEEK

TI-COATED INTERBODY FUSION DEVICE

Brochure

Hip | Knee | Spine | Navigation

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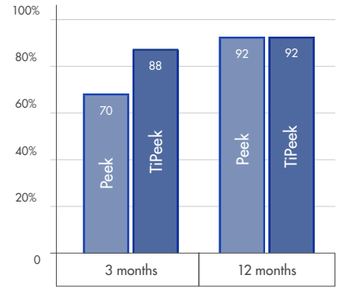
MectaLIF® TIPEEK — TI-COATED INTERBODY FUSION DEVICE

TITANIUM COATED PEEK, ENHANCED BONE CONTACT

Medacta's **TiPEEK** cages represent the next generation plasma sprayed Ti-Coated interbody fusion device designed for **surgical practice**.

HIGH FUSION RATE

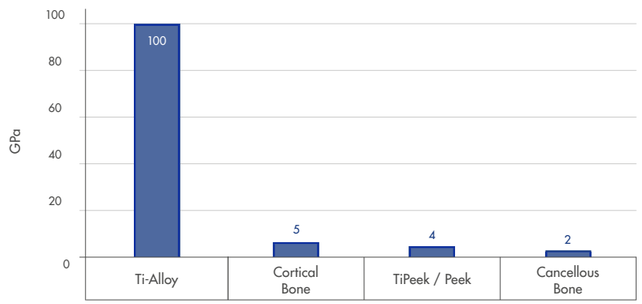


- **High level fusion** rate: ~90% at 3 months post-operative[1]

PHYSIOLOGICAL LOAD SHARING

Having a **stiffness similar to bone**, TIPEEK cages provide a native-like support[3,4,5] that may help to prevent subsidence[7].

ELASTIC MODULUS



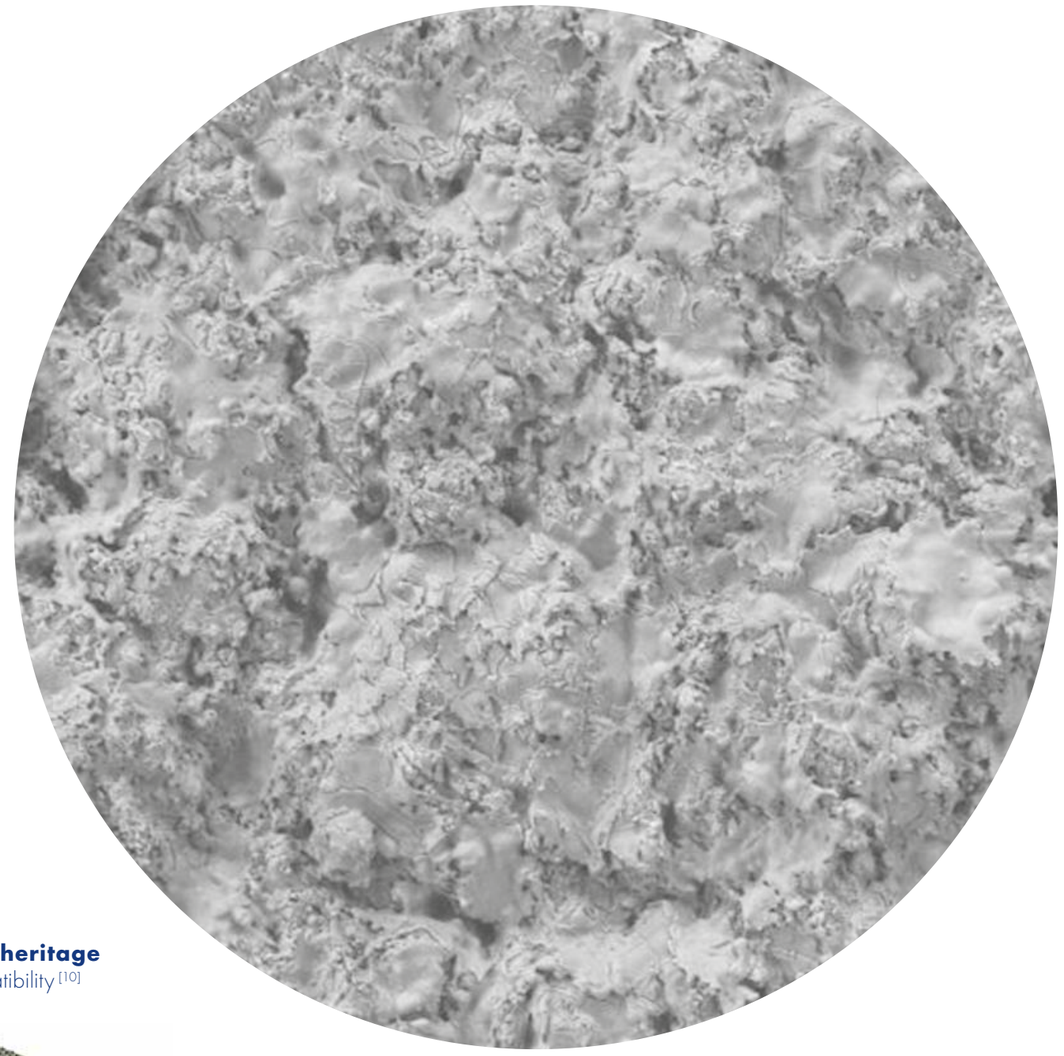
TIPEEK INCORPORATES PEEK & TITANIUM BENEFITS

PEEK heritage

- PEEK core provides a native bone interface[6,7] that may help **prevent subsidence**[9]
- Helps to reduce stress shielding[8]
- Allows for **proper load force transmission** at the implant-tissue interface[8]

Titanium heritage

- Biocompatibility[10]

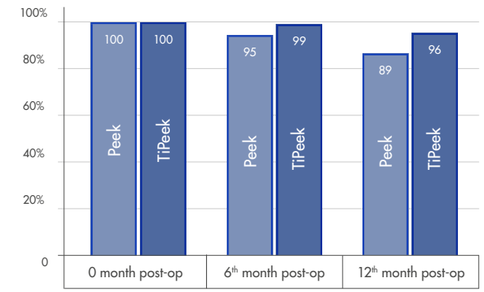


THIN LAYER, FULL VOLUME COATING

Micrometric layer provides **full coating** in the cranial, caudal and interior side of the cages, allowing extensive **3D bone contact.**

DISC HEIGHT PRESERVATION

Ti-Peek cages provide substantial interbody **height restoration** and **lordosis maintenance**[1].



Low **subsidence** for interverterbral height preservation[1].

IMPROVED STABILITY

Enhanced primary **stability** due to complex micro rough surface improves friction **increasing migration resistance**[2].