## **OUR RESULTS**

### **PERFECT FUSION**

Optimal osteointegration thanks to the thin layer Titanium coating

### **OPTIMAL MECHANICAL PROPERTIES**

The PEEK core provides a lower elastic modulus than Titanium.

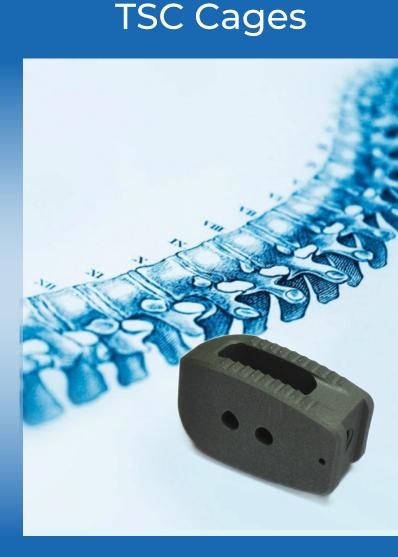
#### **STRESS RESISTANCE**

The thin layer of Titanium does not generate flakes

### **EASE OF DETECTION**

TSC Cages are radiolucent and equipped with two markers, allowing for easy detection with Imaging techniques, with no artifacts







## **CONTACT US**

- $\sim$ spine@orthobion.com

 $\mathbf{O}$ 

- Gottlieb-Daimler Strasse 5 D-78467 Konstanz - Germany
- www.orthobion.com  $( \blacksquare )$





# TSC CAGES The Real Best of Two Worlds

## **OUR TECHNOLOGY**

TSC Cages consist of a **composite PEEK/Titanium implant with a biomimetic imprint**.

Our proprietary Titanium Fine Grained Osseo Integrative Coating technology (FGOIC Ti) allows for optimal interaction between biomaterials and bioenvironment, granting all the advantages of PEEK and Titanium, and no downsides.

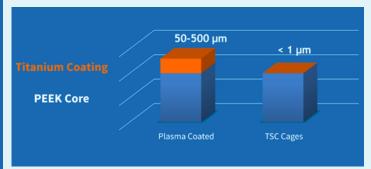
The Titanium layer on TSC cages, with a thickness of less than 1µm, is **1000 times thinner** than layers deposited with plasma coating.

## **A MATTER OF SURFACE**

Starting from pure PEEK Optima® material, a unique biomimetic imprint consisting of a **proprietary engineered surface topography** is created.

The thin Titanium layer is applied on the PEEK Optima® core, to grant **the best** combination of both materials.

The ideal hydrophilic environment for bone formation is ensured, promoting a positive postoperatory recovery and outcome.



#### The benefits:

- The mechanical properties of PEEK are maintained
- Increased surface area on the entire implant, allowing for faster direct bone ongrowth on the Titanium layer
- Stress resistance: no flaking, no wearing

## **ABOUT US**

Orthobion GmbH is a medical device legal manufacturer with design and development, production, manufacturing and distribution of medical implants and instruments based in Konstanz, Germany.

Our team combines decades of know-how in the fields of **spinal surgery**, **medical technology**, **medical education** and **training**.

## **LEARN MORE**



C€0044

www.orthobion.com