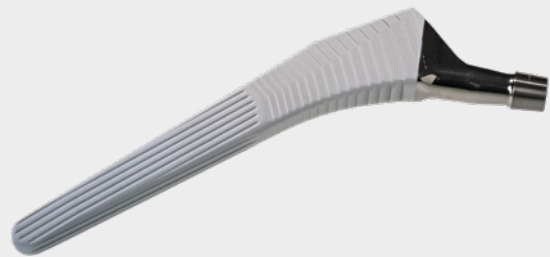
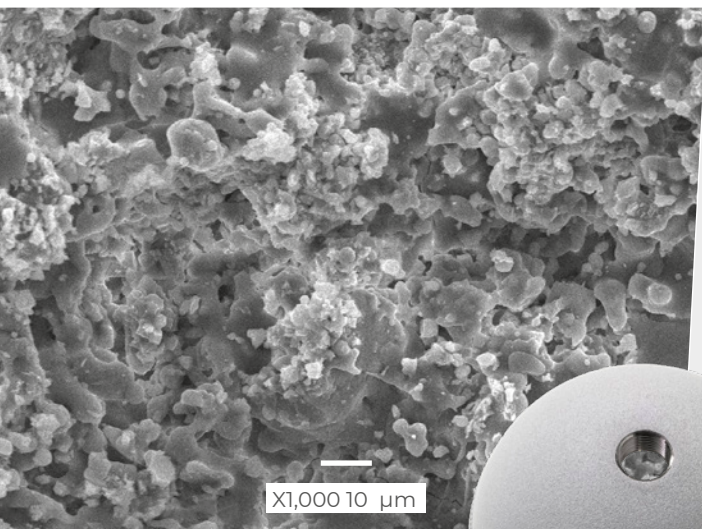


## Plasma Spray Hydroxyapatite Coatings OSPROVIT®



White coating, with high crystallinity and high biocompatibility. Osprovit® is a slowly bioresorbable bioactive coating.

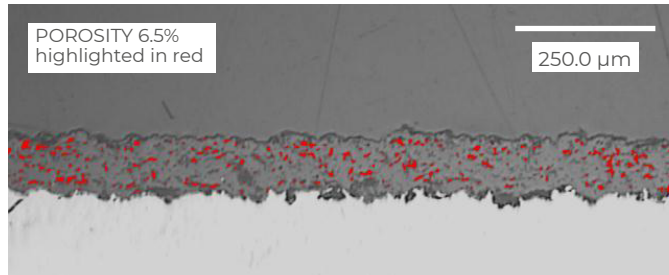
**MORE THAN THIRTY YEARS OF CLINICAL HISTORY  
GUARANTEE THIS COATING'S HIGH PERFORMANCE.**

Osprovit® is suitable for several types of device:

- Arthroplasty implants
- Trauma components
- Dental implants
- Spinal implants

# Plasma Spray hydroxyapatite coatings

## SINGLE HA COATING

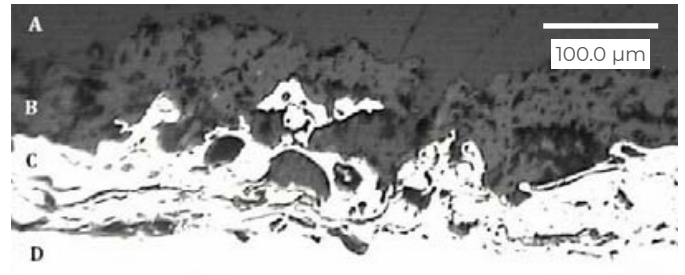


Production Technology	Air Plasma Spray
Recommended Thickness	30 - 150 μm
Porosity	< 10 %
Roughness (Rt)	30 - 80 μm
Crystallinity (According to ISO 13779-3)	> 60 %

Osprovit®: the Hydroxyapatite coating with the longest clinical history.<sup>3,4,5,6</sup> High adhesion strength can be obtained with recommended thickness.

Ours Hydroxyapatite coatings are in compliance with ASTM standards and FDA Guidance.

## DOUBLE COATING



A - Resin
B - Hydroxyapatite coating
C - Titanium coating
D - Metal substrate

High quality double coatings, made with titanium and Hydroxyapatite Osprovit®, are also available.

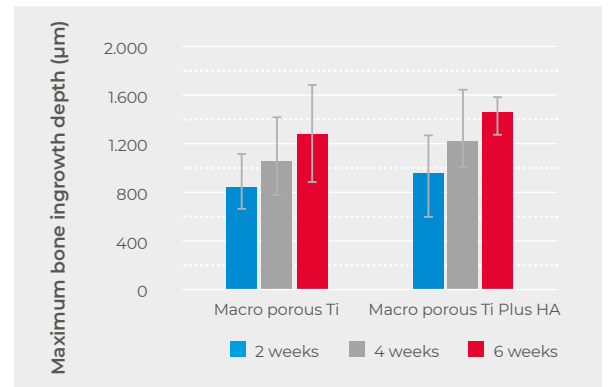
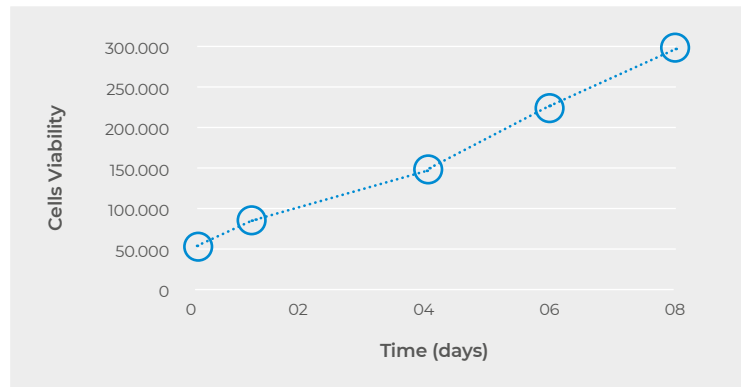
A considerable amount of biological evidence is available to further confirm optimal biocompatibility, as well as long-term clinical efficacy.

### OSPROVIT®

MTT test - SAOS-2

Osteoblast cells growth proliferation trend<sup>1</sup>

Osprovit® HA coating significantly increases and accelerates the bone ingrowth potential of a porous titanium structure<sup>2</sup>



## Bibliography available to support device registration.

1. In vitro assay performed by Prof. L. Visai, Pavia University, Italy;
2. In vivo assessment of bone ingrowth potential of 3-dimensional E-beam produced implant surfaces and the effect of additional treatment by acid etching and hydroxy-apatite coating; JE Biemond, G Hannink, AMG Jurrius, N Verdonchot, P Buma; J Biomater Appl March 2012 vol. 26 no. 7 861-875
3. Histologic morphometric investigation of the state of HA coating several years after implantation; F. Lintner; Osteologie 92-104 (1998)
4. Histology of tissue adjacent to an HAC-Coated femoral prosthesis; F. Lintner; JBJS 1994; 76-B; 824-30
5. Bonding Osteogenesis Under Loaded Condition Histologic evaluation of HA coated stem; J. Osborne; Bioceramics, Vol 1 1989
6. Does Bone replacement occur after HA coating resorption?; F. Lintner; Osteologie 40-53 (2001)



[lincotekmedical.com](http://lincotekmedical.com)



BR007SD rev.03\_2020