

More than an **implant**

**GALAXY**  
conical connection **implant**

More than a **surface**

**Titan**sure  
Active

**Biology** and **high performance**  
for your patient's **well-being**

 **Ziacom**<sup>®</sup>



## Galaxy + Titansure Active: utmost biocompatibility

**Titansure Active** is the result of the combination of our **Titansure** surface treatment with the revolutionary BBL (Bone Bioactive Liquid) technology, a patent acquired by **Ziacom**<sup>®</sup> and developed by the Biointelligence Technology Systems S.L. research group, in response to our firm commitment to innovation, research and the development of new products that improve dental treatments and the well-being of patients.

Applied to our conical connection implant Galaxy, **Titansure Active** creates the perfect conditions for faster and more efficient osseointegration.

### Titansure Active



To achieve this, **Ziacom**<sup>®</sup> has worked on improving the properties of the implant surface, including structure, chemistry, loading and wettability. The result is the innovative **Titansure Active** system, the surface treatment with BBL (Bone Bioactive Liquid) technology that provides a higher result by substantially improving bone-to-implant contact.

# Biology and high performance for your patient's well-being

Thanks to the properties of **Titansure Active**, Galaxy presents a faster healing capacity and optimised bone-implant biocompatibility, both determining characteristics for successful osseointegration, which is an important differential value for implant treatments.

## GALAXY

Conical connection: prevents micro-movements and microleakage.

Single platform: significantly simplifies prosthetic procedures.

Thread design: higher primary stability.

Cervical reverse taper: less cortical stress.

Active apex: facilitates the rectification of the insertion axis in post-extraction alveolus.

## Titansure Active

Perfect conditions for increased cell attraction.

Increased density of hydroxyl groups.

Optimises intercellular communication.

Decreases osseointegration times and increases BIC.

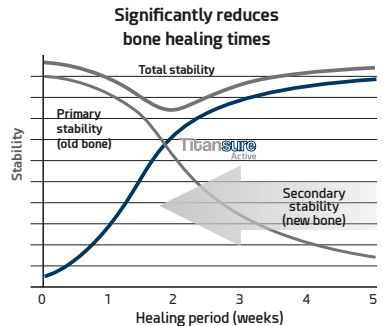
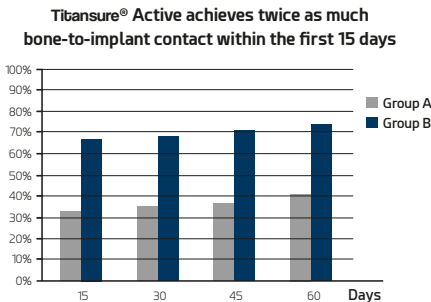
Reduction of inflammatory processes.



## Proven results

BBL technology consists of a saline solution with a net negative load containing Calcium Chloride (CaCl<sub>2</sub>) and Magnesium Chloride (MgCl<sub>2</sub>·6H<sub>2</sub>O) that creates the ideal condition for cell attraction to the bone lesion area after implantation.

BBL surface treatment considerably increases the density of hydroxyl groups on the implant surface, significantly improving its hydration compared to other surfaces. It is precisely this hydrophilic implant surface that allows early active ionic interaction with blood plasma and bone stem cells, before the first adult osteogenic cells attach to the surface. This finally results in an improved intercellular communication and leads to a better final bone-to-implant contact in a significantly shorter time, which considerably reduces the postoperative inflammatory process.



The high biocompatibility of Galaxy when treated with **Titansure Active** has been demonstrated in studies on implant surfaces, as Dr. Sérgio Alexandre Gehrke, the study's lead histologist, points out:

"Within the limits of this study, the data obtained in the histomorphometric analysis on the implants of the surface-treated group (78.92 ± 0.3%) showed a much faster and more efficient osseointegration compared to the control group (53.8 ± 2.3% BIC). The evaluation of bone growth in the medullary portion of the rabbit tibia bone shows the osteoinduction potential of this new tested surface."

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