

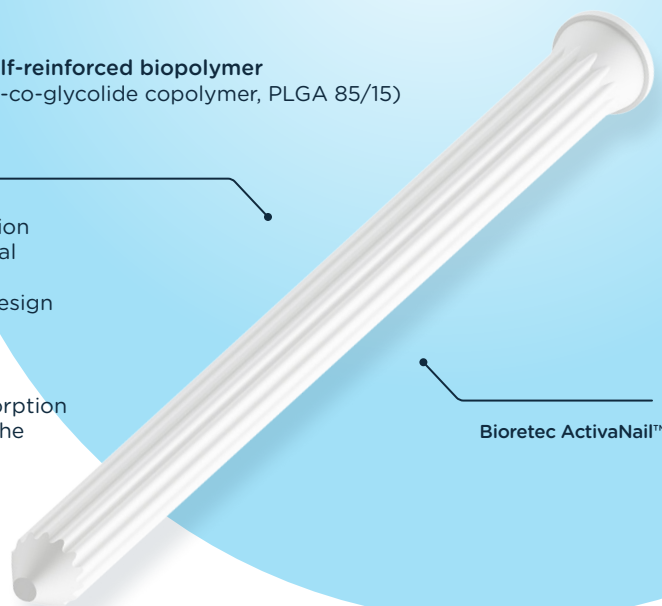


# ActivaNail™

Absorbable self-reinforced biopolymer  
(poly L-lactide-co-glycolide copolymer, PLGA 85/15)

Advanced absorbable nail for upper and lower extremity fixation of bone fractures, osteotomies, arthrodeses, and osteochondral fractures in the presence of appropriate immobilisation with patented Self-Locking SL™ technology and grooved surface design with a conical head.

ActivaNail™ implants gradually lose their strength, however maintaining their function for at least 8 weeks. Complete absorption takes place within approximately two years, thus eliminating the need for implant removal surgery.



Bioretec ActivaNail™

## PATIENT BENEFITS

- No need for removal surgery due to gradual absorption over the course of 2 years.
- During absorption, the implant slowly transfers stress to the healing bone, assisting in the healing process.
- Due to absorption, the risks of implant-related long-term complications are eliminated.

## PROFESSIONAL BENEFITS

- Patented **Self-Locking SL™** technology and a **grooved surface design** provide excellent fixation and rotational stability, keeping the product securely in place after implantation.
- The self-reinforced structure offers enhanced support, with the diameter increasing by **1-2%** from its initial dimensions, ensuring a tight and reliable fit to the bone.
- The use of ActivaNail™ is straightforward with **Bioretec's reusable pin applicator**, designed to pick up and attach the implant—eliminating the risk of losing the pin during insertion.
- The insertion process can be performed using either a **reusable arthroscopic** or **regular applicator**.
- ActivaNail™ is **sterile packaged** to ensure ease of use and maintain aseptic conditions during surgical procedures.

## MATERIAL PROPERTIES & KEY POINTS

- **High strength and stiffness** achieved through tailored material and proprietary manufacturing techniques.
- **Bending modulus** close to cortical bone, reducing stress shielding.
- **Facilitates bone healing** and fully absorbs in approximately two years.
- Made of **PLGA 85/15**.
- **Patented Self-Locking SL™** technology minimizes unstable fixation risks.
- Implant diameter expands **1-2%** in the physiological environment for firm bone fixation.
- **Single sterile packed** and **excellent for pediatric orthopaedics**.
- Also applicable in **cartilage repair** and **osteochondral fragment/loose body repair**.

## APPLICATIONS & INDICATIONS

### Upper Extremities

- Humeral condyle fractures
- Olecranon fractures
- Radial head fractures
- Distal radius fractures
- Metacarpal fractures
- Phalanx fractures

### Lower Extremities

- Cartilage Repair
- Osteochondral fragment/loose body repair
- Ankle fractures (e.g., malleolar fractures)
- Talar fractures
- Patella fractures
- Fixation of metatarsal and phalangeal fractures and osteotomies (Akin, Scarf, Chevron, Weil) — e.g., Hallux Valgus
- Arthrodesis procedures, including:
  - Talocrural arthrodesis
  - Subtalar arthrodesis
  - 1<sup>st</sup> MTP arthrodesis
  - Interphalangeal (IP) arthrodesis

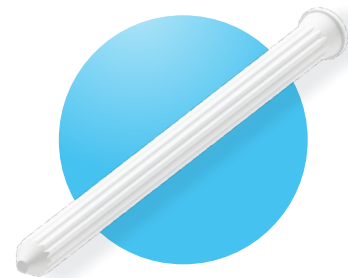


## ActivaNail™ Product Codes

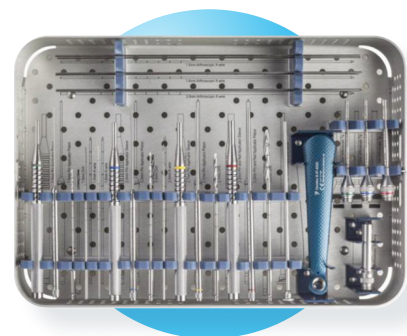
Product Code	Product Description
B-ANCO-1510	ActivaNail™ Conical 1.5 x 10 mm
B-ANCO-1515	ActivaNail™ Conical 1.5 x 15 mm
B-ANCO-1520	ActivaNail™ Conical 1.5 x 20 mm
B-ANCO-1525	ActivaNail™ Conical 1.5 x 25 mm
B-ANCO-1530	ActivaNail™ Conical 1.5 x 30 mm
B-ANCO-2015	ActivaNail™ Conical 2.0 x 15 mm
B-ANCO-2020	ActivaNail™ Conical 2.0 x 20 mm
B-ANCO-2025	ActivaNail™ Conical 2.0 x 25 mm
B-ANCO-2030	ActivaNail™ Conical 2.0 x 30 mm

## Instrument Options

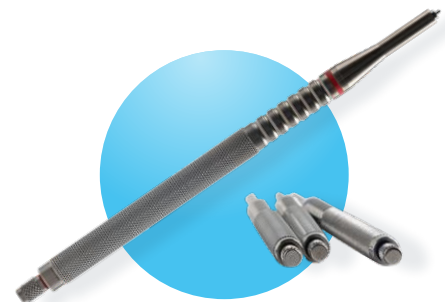
Product Code	Product Description
B-IP-3200	Applicator Ø3.2 mm, reusable, for 3.2 mm pins and for 1.5/2.0/2.7/3.2 mm nails
B-IP-1502	K-Wire Ø1.5 mm, length 130 mm, for 1.5 mm pins/nails, 10 pcs.
B-IP-1501	K-Wire Ø1.6 mm, length 130 mm, for 1.5 mm pins/nails, 10 pcs
B-IP-2001	K-Wire Ø2.0 mm, length 130 mm, for 2.0 mm pins/nails, 10 pcs.
B-IP-1503	Drill bit Ø1.5 mm, for 1.5 mm pins/nails, quick coupling
B-IP-2003	Drill bit Ø2.0 mm, for 2.0 mm pins/nails, quick coupling
B-IP-4000	Applicator handle, arthroscopic, for pins and nails
B-IP-3212	Applicator tip, arthroscopic, for 1.5/2.0 mm nails
B-IP-4001	Applicator drill guide, arthroscopic, for 1.5/2.0 mm nails
B-IP-4004	Applicator housing, arthroscopic, for pins and nails
B-IP-1506	K-Wire Ø1.5 mm, length 260 mm, for 1.5 mm pins/nails
B-IP-1504	K-Wire Ø1.6 mm, length 260 mm, arthroscopic, for 1.5 mm pins/nails
B-IP-2004	K-Wire Ø2.0 mm, length 260 mm, arthroscopic, for 2.0 mm pins/nails
B-IP-4003	Sterilization tray for ActivaPin instruments



ActivaNail™



Instrument Set  
for ActivaPin™ B-IPS-1000



Applicator

## PRODUCT PROPERTIES

- **Material:** ActivaNail™ is made of PLGA 85/15, which safely absorbs in the body in approximately two years. The material has a long history in medical use and is proven to be safe in various scientific clinical studies and by real-world evidence.
- **Certificates:** ActivaNail™ is FDA cleared and CE approved.
- **Product measures:** ActivaNail™ is available in diameter 1.5 and lengths 10-30 mm and diameter 2.0 and lengths 15-30 mm.