

Instructions for Use—IMPLANTS (Sterile)

This document applies to all sterile implants manufactured by Chetan Meditech Pvt. Ltd. (BIOTEK) including bone plates, bone screws, intramedullary nails, wire/pinwashers, spine implants, prosthesis and arthroscopy implants.

Device Description

Refer the label on the packaging for complete specifications of the product.

Materials used

Product Name	Material of Construction
Bone plates	SS 316L(ISO 5832-1) OR Titanium TiCP(ISO 5832-2)
Bone screws	SS 316L(ISO 5832-1) OR Titanium Ti-6Al-4V (ISO 5832-3)
Intramedullary nails	SS 316L(ISO 5832-1) OR Titanium Ti-6Al-4V (ISO 5832-3)
Wire, pin, washer	SS 316L(ISO 5832-1) OR Titanium Ti-6Al-4V (ISO 5832-3)
Arthroscopy implants	Titanium Ti-6Al-4V (ISO 5832-3) OR PEEK(Poly Ether Ether Ketone as per ASTM F2026) OR SS 316L(ISO 5832-1) OR Polyethene (ISO 5834-2)
	Titanium Ti-6Al-4V (ISO 5832-3) and Polyethene (ISO 5834-2) and SS 316L(ISO 5832-1)
	PEEK(Poly Ether Ether Ketone as per ASTM F2026) and Polyethene (ISO 5834-2)
	Titanium Ti-6Al-4V (ISO 5832-3) OR PEEK(Poly Ether Ether Ketone as per ASTM F2026) and Polyethene (ISO 5834-2)
	SS 316L(ISO 5832-1) and Polyethene (ISO 5834-2)
Spine implants	Titanium Ti-6Al-4V (ISO 5832-3) OR PEEK(Poly Ether Ether Ketone as per ASTM F2026) OR Titanium TiCP(ISO 5832-2)
Prosthesis	SS 316L(ISO 5832-1) OR Titanium Ti-6Al-4V (ISO 5832-3) OR CoCr alloy(ASTM F75) and Polyethene (ISO 5834-2)

Intended Use

Long term surgically invasive implants or Implantable medical devices

General handling

Carefully store the implant in its unopened protective packing. Before unpacking check the packing for damage. If the internal packing is damaged, implant sterility cannot be guaranteed. Do not unpack the implant until immediately before use. Check the implant as specified on the packing label. Check the implant visually for damage. Never use a damaged implant. Never reuse an implant. Modular components are part of a system. Use them only in combination with the appropriate original components made by BIOTEK. For details of specified combinations, see the relevant brochures and product descriptions.

Packing

All components are packed singly, in protective sterile packing. Sterile packing is marked "STERILE". All packing conforms to European standards and regulations. Products marked "STERILE" have been sterilized by gamma radiation of at least 25kGy (2.5Mrad) and at most 35kGy (3.5Mrad) OR Ethylene Oxide Sterilization. Inward-goods inspection is strongly recommended. Only intact packing protects the implant against outside influence and ensures sterile storage. Strictly observe the local regulations for asepsis when you remove the implant from its packing. The manufacturer or local distributor cannot accept returned implants except in their original, undamaged, and totally intact packing. If the packing seal is broken or the packing is opened improperly, the manufacturer cannot guarantee sterility and cannot be held liable. Before you open sterile packing, check the implant's size by verification with preoperative planning.

Storage

Store the product in a dry place at room temperature. The sterilization dot must be Red (for gamma irradiation) OR Green (for ETO sterilization). On no account use the implant after its expiry date.

Preoperative planning

Preoperative planning provides information for the choice of a suitable implant and of possible combinations. Suitable instruments and additional sizes of implants should always be available.

Contraindications

- Acute or chronic local or systemic infection.
- Severe muscular, nervous, and/or vascular disorders that could endanger the limb.
- Insufficient bone substance and/or inadequate bone quality that could endanger the stable fixation of the implant.
- Any concomitant illness and/or dependence that could be risk implanting function.
- Excessive bodily activities that could cause overloading of the implant.

Side effects, possible negative effects

With good preoperative planning, careful surgical technique and pre-, intra-, and postoperative observance of both the general and particular duty of care, the biological and mechanical result should be at least as good as that obtained from established systems currently in use. Severe osteoporosis, severe malformations, local bone tumors, metabolic disorders, infections, severe falls, drug and/or alcohol abuse, overweight, and excessive vibration stress on implants can have a negative effect on the result. Possible well known effects are * Loosening and drifting of the implant. * Dislocation of the implant. * Infection. * Venous thrombosis and pulmonary embolism. * Cardiovascular Disorders. * Hematoma.

Sympathetic reactions-Before surgery, check whether the patient might be abnormally sensitive or have possible allergic reactions to the implant material, and at all cost, take these into account.

Surgical Technique

The use of the implant requires a thorough knowledge of the instruments and adequate training and experience of the implant technique.

Notes and warnings

Always check that the components are perfectly clean, dry, and free of damages or residues. It is extremely important to tell the patient before surgery what factors could prejudice the success of the operation. Record the fact that you have told him/her this. Only adequately trained surgeons with sufficient experience of the implant technique should use this implant. Failure to observe these instructions renders any liability by the manufacturer null and void. The surgeon is solely responsible for the choice and use of the implant. Do not reuse implants. While an implant may appear undamaged, previous stress may have created imperfections that would reduce the service life of the implant. Do not treat patients with implants that have been placed, even if momentarily, in a different patient.

Sterility

BIOTEK internal fixation implants are supplied sterile, and are sterilized by exposure to a minimum dose of 25kGy of gamma radiation or by Ethylene Oxide Gas (ETO). Single use only. Do not resterilize. Do not use past expiration date.

Magnetic Resonance Imaging/ Electromagnetic field/ Magnetic field

Implants made from non-ferromagnetic materials i.e. Titanium TiCP(ISO 5832-2) OR Titanium Ti-6Al-4V (ISO 5832-3) OR PEEK(Poly Ether Ether Ketone as per ASTM F2026) OR Polyethylene (ISO 5834-2) are safe or 'MR conditional' according to specific conditions for patients undergoing MR procedures. However, patients who have implants made from ferromagnetic materials i.e. SS 316L(ISO 5832-1) OR CoCr alloy(ASM F75) have potential risks of loosening and migration of the implant, heating of the metal with surrounding tissues, causing thermal damage, and artifactual distortion. Patients who have implants made from ferromagnetic materials i.e. SS 316L(ISO 5832-1) OR CoCr alloy(ASM F75) are warned not to enter areas with electromagnetic or magnetic fields.

Disposal

After use, this device may be a potential biohazard and should be decontaminated before disposal and handled in accordance with accepted medical practice and applicable local and national requirements.

Warranty

















This product is warranted to be free from defects in material and workmanship.

Documentation: To ensure the implant's traceability at all times, attach/mention the information (batch no., etc) given in the product label to the patient's clinical history.

For Further Information

If further information on this product is needed, please visit www.biotechortho.com or contact BIOTEK Customer Service Department, or your authorized representative. In case of any queries, please put in to the knowledge of following organization. All trademarks herein are the property of BIOTEK or its subsidiaries unless otherwise indicated.

Manufacturing unit: Chetan Meditech Pvt. Ltd. (BIOTEK), Kadi-Kalol Highway, Mehsana Dist. – 382715, Gujarat, India

Symbol Legend	
 Manufacturer	 Date of Manufacture
 Do Not Reuse	 Caution
 European Conformity	 Sterile
 Sterilized Using Ethylene Oxide	 Sterilized Using Irradiation
 Catalogue Number	 Consult Instructions For Use
 CMC MEDICAL DEVICES & DRUGS S.L. Address: C/ Horacio Lengua Nº 18, CP 29006, Málaga, SPAIN Ph: +34 951 214 054 info@cmcmedicaldevices.com Authorized Representative in the European Community	 Batch Code
 Do not use if package is damaged	 Use By
 By Prescription Only	 Do Not Resterilize