

Patient Specific Implants made of Titanium

Beside our implant materials **BIOVERIT®II** and **PEEK** we offer you also patient specific implants of **Titanium**. Titanium is a non-resorbable high stable metal for the long-term implantation.

Advantages of Titanium

- long term established as implant material in many fields
- excellent proven biocompatibility
- high conductivity
- compatible for aggressive pH conditions
- resterilization is possible; all conventional procedures for the sterilization are applicable (Steam, Ethylene oxide and Gamma irradiation)



Material

Titanium is a dark grey material, which is high stable. Because of the stability you can not processed this material with tools.

Chemical composition

We use for the Titanium implants a Ti6Al4V- metal alloy. In contrast to pure Titanium the metal alloy does not tend to abrasion. Titanium passivate automatically on the surface through the formation of dense oxide layer.

3di GmbH Patient Specific Skull Implants



BIOVERIT® II



PEEK



Titanium

Advantages of the 3di method

- 3 different implant materials
- biocompatible und bioinert materials
- exclusively virtual planning
- high complex structures
- accuracy of fit
- quickness (3-5 work days, in emergencies within 48 hours)
- individual fixation options
- intraoperative machinable (PEEK, BIOVERIT® II)
- one-stage-surgery (resection and implantation with the help of the neuronavigation system and/or a template)
- resterilization is possible
- customer focus
- price independent from the selected material