ZIRCONIUM-NIOBIUM ZONED TRABECULAR BONE CEMENTLESS KNEE



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High bonding strength of metallic trabecula with solid body is accheived with 3D printing for one-batch forming

Friction interface made of zirconium oxide n iobium alloy biological ceramics offers a friction coefficient as low as half of that of Co-Cr-Mo Alloy. The gradient distribution of bone trabecula of o sseointegration interface improves the mechani cal fit of the prosthesis and bone ingrowth for I ong-term stability

The four-quadrant design with a combination of piercing claw and side wings for improved initial fixation

Low artifacts, little interference to MRI



Hardness >12GPa

Excellent corrosion resistance. Reduced the wear rate of the joint friction interface.



Ideal biocompatibility, low sensitization and good for osseointegration.





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Raw Material and Processing





Powder





Semi-finished



Mechanical testing bar









Excellent corrosion resistance and low friction.

Excellent biocompatibility and low sensitization to enhance osseointegration.

Low artifacts and little interference by MRI

High bonding strength of trabecular metal with the solid body is achieved with 3D printing. Integrally formed.

he gradient distribution of trabecular metal at osseointegration interface improves the mechanical adaptability of the prosthesis, facilitating bone ingrowth for long-term stability.

The four-quadrant design with a combination of piercing claw and side wings for improved initial fixation.

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STRUCTURAL PARAMETERS











CONSISTENCE OF CONSISTENCE



- Hardness >12GPa
- Thickness >5µm
- Roughness <0.02 µ m
- Contact angle <60
- Young's modulus >190GPa







SEE

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