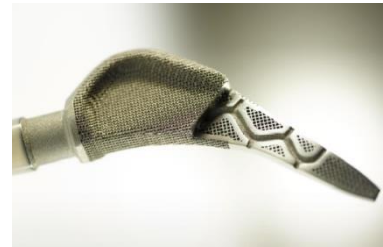




DIRECT METAL LASER SINTERING

CL 42TI COMMERCIALY PURE TITANIUM MATERIAL SPECIFICATIONS



PRODUCT DESCRIPTION

Chemical composition of CL 42TI includes ASTM F67 and ASTM B348 grade 2. It can be used in the manufacture of implants for the medical industry as well as in lightweight components for the aviation industry.

APPLICATIONS

CL 42TI can be used for prototypes, one-off or series parts for the aviation, aerospace and medical industries, for example functional components with an integrated cooling structure, bionically optimized functional components, bone foam with a bioanalog structure as bone replacement material, individual biocompatible implants or prostheses with a microcellular structure.

KEY BENEFITS

- used in the manufacture of implants for the medical industry as well as in lightweight components
- Commercially Pure Titanium

PROPERTIES

Tensile Strength (N/mm ²)	Elongation (%)	Young's modulus (kN/mm ²)	Thermal conductivity W/mk	Coefficient of thermal expansion (K ⁻¹)
600-620	15.5-20	110	21	$8.9 \cdot 10^{-6}$