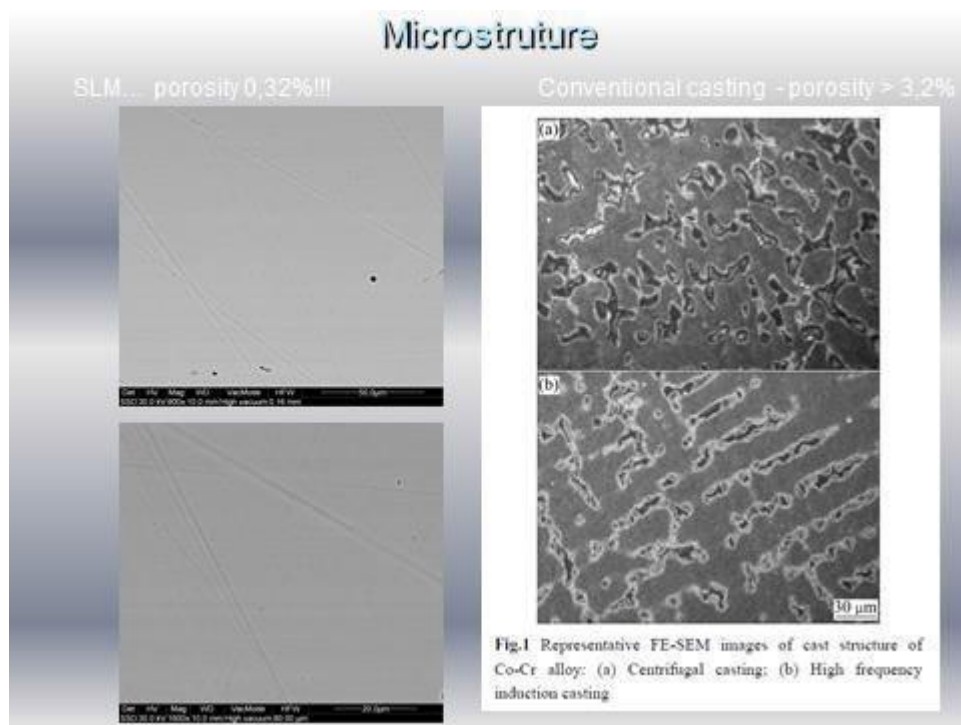


BioSint CoCr-Dental Alloy Powder for the manufacturing of fixed and removable prosthesis in SLM*

Biosint CoCr alloy enable the production of high-quality dental restorations in mass production, in metal 3D printing, using SLM* systems. Metal frameworks for partial dentures, fixed prosthesis frameworks for metal ceramic veneering, can be manufactured in high quality.

- extremely low porosity proven with scientific research
- low thermal coefficient for expansion giving a superb match with all ceramics for veneering without cooling at most of the cases.
- very light colored oxide layer maximizing the color esthetics of the ceramic restoration!
- Very high bond strength with ceramic, among the top 3 in the global CoCr market.
- Biocompatible.
- High corrosion resistance.
- Laser weldable.
- CE certified.



SLM* registered trademark of companies:

Realizer GmbH, 33178 Borcheln, GE and SLM Solutions Group AG, 23556 Lübeck, GE Register no.: 30094322

BioSint Powder

CoCrWMo dental alloy powder for the manufacture of dental Prosthesis in laser melting or Laser sintering processes

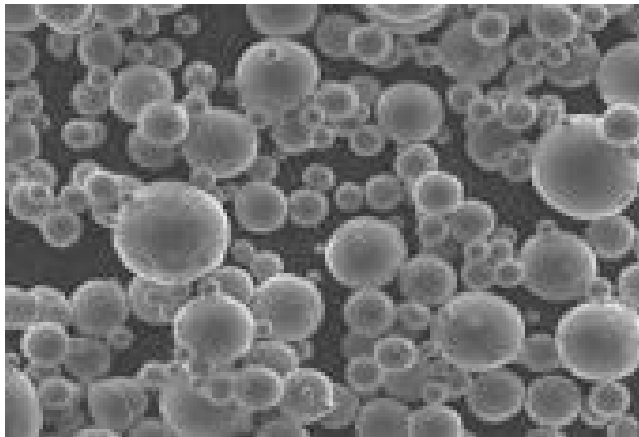
Specification: Co 63.0 * Cr 24.0 * W 8.0 * Mo 3.0 * Si 1.0 * Nb 1.0

CE 0653

Do not shake!

Store in a dry place!

Before use remove deshydrant bag!



Technical properties**:

Proof stress (Rp 0.2)		Min.: 700 MPa
Ultimate tensile strength		Min.: 900 MPa
Elongation		7-9 %
Young's Modulus		Min.: 180 GPa
Vickers hardness HV10		350 HV HV10
Density		8.8g/cm ³
Melting range		1380 - 1440 °C

CTE (20-500°C)		14.0 x 10 ⁻⁶ K ⁻¹
Laser weldable		Yes
CTE (20-600°C)		14.2 x 10 ⁻⁶ K ⁻¹
Type (DIN EN ISO 22674)		5

Biosint Powder is in various grain sizes for several systems available:

BioSint Powder 16

Grain size of the alloy powder: +3-16µm

- Suitable for processing in the systems: PXS Dental* and PXM Dental*, DMP Dental 100* and ProX DMP 200* Dental*



Trade unit: 4kg

BioSint Powder 30

Grain size of the alloy powder: +10-30µm

- Suitable for processing in the systems: Lasertec 12*, Arrow Metal Printer*, EOS M 100*, EOSINT 270*, Mysint 100*, Mysint 100 RM*, Mysint 100 Dual*, TruPrint 1000*, Orlas Creator*

Trade unit: 4kg, 10kg

BioSint Powder 45

Grain size of the alloy powder: +10-45 μm

- Suitable for processing in the Systems:
EOSINT 270*, HintEls 100*, SLM 125 HL*

Trade unit: 4kg, 10kg

BioSint Powder 55

Grain size of the alloy powder: +10-55 μm

- Suitable for processing in the systems:
Lasertec 12*, Lasertec 30*, SLM 50*, SLM 125*

-

Trade unit: 4kg, 10kg

*PXS Dental and PXM Dental are registered trademarks of the company PHENIX Systems // *DMP Dental 100 and ProX DMP 200 Dental are registered trademarks of the company 3D Systems Corp. // *Lasertec is a registered trademark of the company DMG Mori AG // *Arrow Metal Printer is a registered trademark of the company Dentas d.o.o. // *HintEls 100 is a registered trademark of the company Hint-Els GmbH // *SLM 50, SLM 100 and SLM 125 are registered trademarks of Realizer GmbH // *LaserCUSING is a registered trademark of the company ConceptLaser GmbH // *EOSINT M is a registered trademark of the company EOS GmbH // *SLM 125HL is a registered trademark of the company SLM Solutions GmbH // *MYSINT is a registered trademark of the company Sisma SpA // *TruPrint is a registered trademark of the company Trumpf GmbH & Co. KG

** Standard values; dependent on specific machine Settings. Determined after thermal treatment / Simulation of ceramic firing