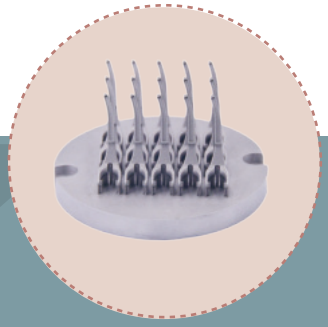
Metal 3D Printing Leader

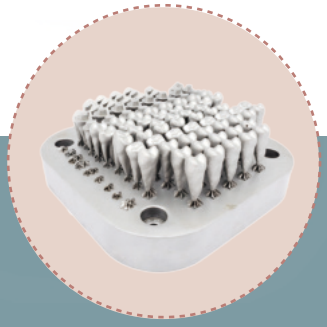
Kings 3D Printing

Cobalt, chromium, and molybdenum alloy

CoCr

Cobalt, chromium, and molybdenum alloy designated for medical, denture and high-temperature applications





Advantage

> Great as-finished sureface
> High toughness
> High strength
> Excellent bio-compatibility
> Good corrosion resistance

Ideal Applications

> Medical implants
> High temperature
> High performance engineering

Powder composition / percent by mass

C	Si	Ni	Fe	P	Ti	B	Mn	Cr	Mo	S	Al	W	Co
< 0.16	<1.0	<0.50	<0.75	<0.020	<0.10	<0.010	<1.0	27.0-30.0	5.0-7.0	<0.010	<0.10	<0.20	Balance

Technical Datasheet

General Properties	Density ISO3369	≥8.35g/cm³
Mechanical Properties (As built)	Tensile Strength ISO6892-1	≥1060 MPa
	Yield Strength ISO6892-1	≥800 MPa
	Elongation after Fracture ISO6892-1	≥8 %
	Vickers hardness ISO6507-1	N/A
	Hardness (HRC) ISO6507-1	36-38
	Thermal conductivity at 20 ºC	13 W/mK
	Surface roughness Ra X, Y	4 µm
	Surface roughness Ra Z	8 µm-12 µm
Mechanical Properties (Heat treated)	Tensile Strength ISO6892-1	≥970 MPa
	Yield Strength ISO6892-1	≥620 MPa
	Elongation after Fracture ISO6892-1	≥12%
	Vickers hardness ISO6507-1	≥310 HV5/15

Shenzhen KINGS 3D Printing Technology Co., Ltd.
Floor 14, Building 3A, Yunzhi Science Park, Shuangming Road South, Guangming Street, Guangming District, Shenzhen,Guangdong Province, CHINA, 518107
www.kings3dprinter.com info@kings3dprinter.com