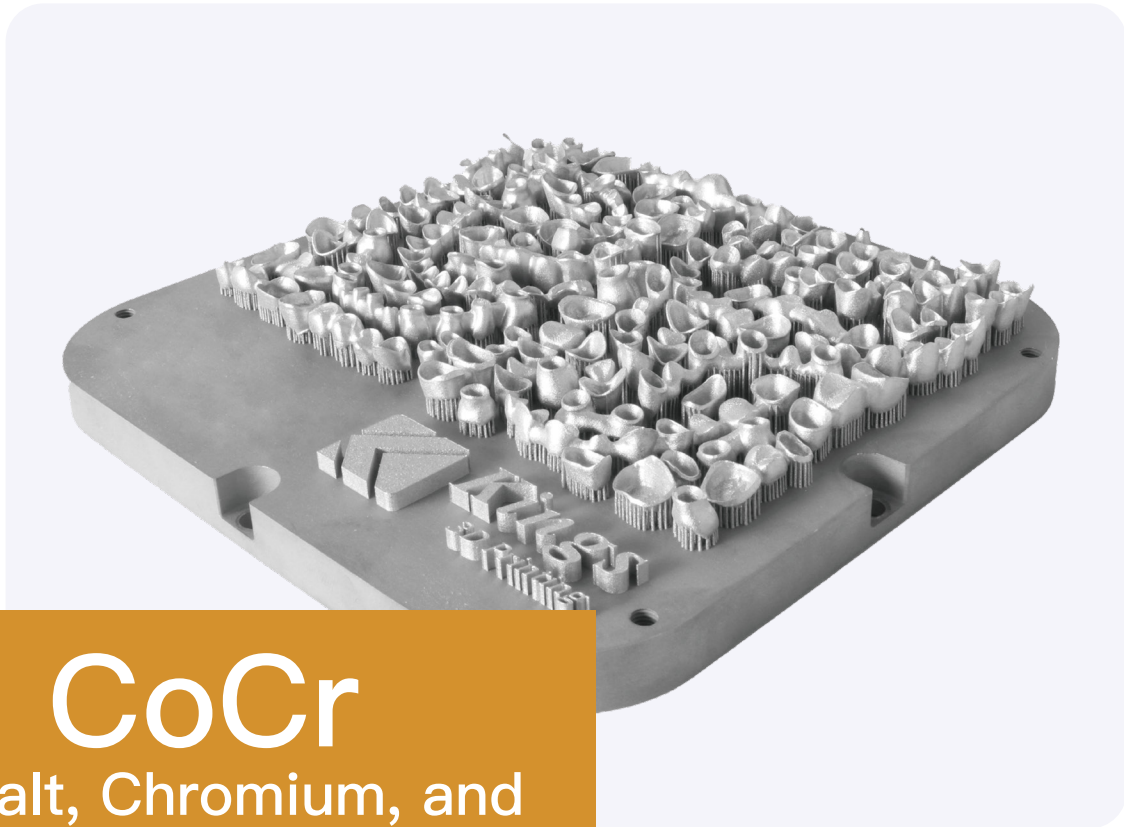


Metal 3D Printing Leader



CoCr

Cobalt, Chromium, and
Molybdenum Alloy

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



Advantage

- > Great as-finished surface
- > 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	Ai	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/cm ³
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 °C	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 Co., Ltd

Building B, No. 148 Huanli Road, Yungu Community, Xinhua Street,
Guangming District, Shenzhen, China.



www.kings3dprinter.com



market@kings3dprinter.com



@kings3dprinter



@kings_3dprinter