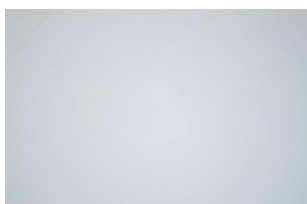
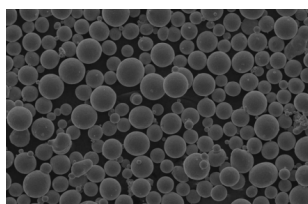


CoCrMoW LPBF Powder for Dentistry

【 Anti oxidation, corrosion resistance 】

Material Introduction

CoCrMoW is a cobalt chromium alloy, mainly composed of Co, Cr, Mo, W, Si, Fe, etc. It has good oxidation resistance and corrosion resistance. AVIMETAL has obtained a Class III medical device registration certificate and is included in China's medical insurance as a medical consumable (code: C070601144010100021685).

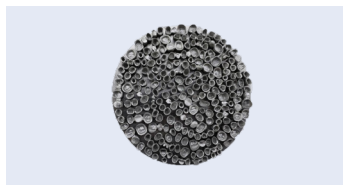


中华人民共和国医疗器械注册证	
注册证编号:	国械注准20223171642
注册人名称	中航迈特粉冶科技(北京)有限公司
注册人住所	北京市经济技术开发区凉水河二街5号院4号楼1层102室、103室、2层203室
生产地址	河北省廊坊市固安县工业园区南区1号厂房(委托生产)
代理人名称	/
代理人住所	/
产品名称	牙科用激光选区熔化钴铬合金粉
型号、规格	型号: CoCr01; 规格: 5kg, 10kg
结构及组成	产品为微米级粉末, 主要化学成分为钴(62%)、铬(26.5%)、钼(5.5%)、钨(5%)、硅(1%)。
适用范围	通过增材制造激光选区熔化方式, 用于成型牙科金属铸造修复体的金属内冠, 可摘局部义齿支架及卡环。
附件	产品技术要求
其他内容	/
备注	产品由委托生产, 受托企业为中航迈特粉冶科技(北京)有限公司。
审批部门	国家药品监督管理局
批准日期:	二〇二二年十二月十四日
生效日期:	二〇二二年十二月十四日
有效期至:	二〇二七年十二月十三日

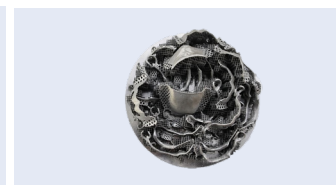
国家药品监督管理局电子证照 <https://efda.nmpa.gov.cn> 2022-12-14 14:12:34-051

Applications

It can be used for metal crowns of dental metal porcelain restorations, removable partial denture supports, etc.



Dental crowns



Dental frameworks

Chemical Composition (wt.%)

Co	C	Cr	Mo	Si	W	Mn
Bal.	≤0.35	24.5-28.5	4.5-6.5	0-2	4.0-6.0	≤1.0
Fe	O	N	H	/	/	/
<0.5	<0.1	<0.2	<0.1	/	/	/

Physical Property

Granularity(μm)			Sphericity	Loose density (g/cm ³)	Tap density (g/cm ³)	Flowability (s/50g)
D10	D50	D90				
≥12	25-40	≤65	≥0.85	≥4.0	≥4.5	≤25



Mechanical Property

Heat-Treated		
Tensile Strength/MPa	Yield Strength/MPa	Elongation/%
≥ 1000	≥ 750	≥ 8.0

Advanced Powder Metallurgy Technology

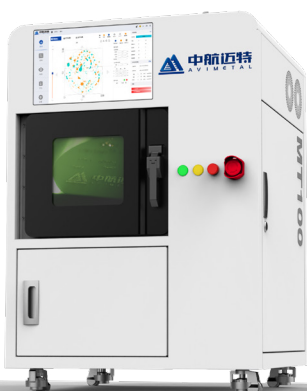
The powder metallurgy technology and equipment production line—
Vacuum Induction Gas Atomization (AVI-VIGA)



Adapting Devices

MT100 LPBF Equipment

Build size: $\phi 100\text{mm} \times 800\text{mm}$ (D $\times$ H)
Laser type: 300W Single



MT170 LPBF Equipment

Build size: $\phi 170\text{mm} \times 120\text{mm}$ (D $\times$ H)
Laser type: 500W Single/Dual Fiber Laser



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