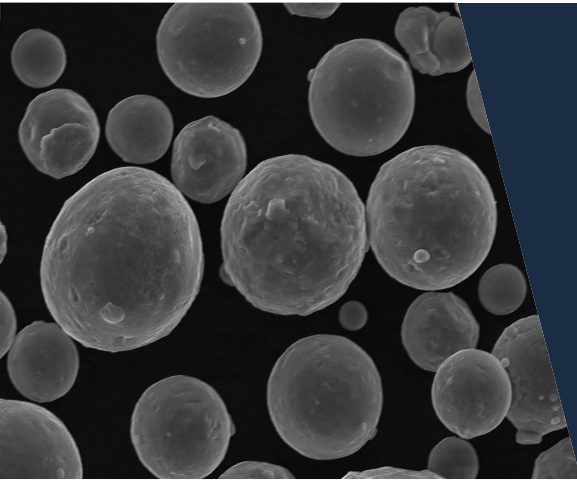


# ANCOR M2



## ANCOR M2

High-speed steel typically used in cutting tools such as drills, mills, taps, etc. The material's high alloy content allows for hard, wear-resistant carbides to be produced in the microstructure. Using alloying elements such as tungsten, vanadium, molybdenum, chromium and carbon provides good hardenability allowing even thick part cross-sections to transform to martensite and reach high hardness with relatively slow cooling conditions.

### CONTACT INFORMATION

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- Metal Powder for Additive Manufacturing
- Rigorous Quality Testing of Each Powder Lot
- Molybdenum - (6%) Tungsten High Speed Steel
- Alloy Composition Allows for Wear-Resistant Carbides
- Particle Size Engineered for Binder Jetting, Laser Powder Bed Fusion (LPBF), Electron Beam Melting (EBM), Metal Injection Molding (MIM) and Direct Energy Deposition (DED)

### Typical Powder Characteristics

Laser Particle Size Analysis [ $\mu\text{m}$ ]				Application
Size Type	D10	D50	D90	
<25	8	15	25	MIM, Binder Jetting
15-53	20	35	50	LPBF
45-105	50	75	103	EBM, Laser Cladding

### ANCOR M2

Chemical Composition Nominal (wt%)				Maximum (wt%)						
Iron	Chromium	Nickel	Molybdenum	Manganese	Tungsten	Vanadium	Silicon	Oxygen	Carbon	Sulfur
Bal.	4.00	0.30	5.00	0.40	6.75	2.20	0.45	0.15	0.88	0.03

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