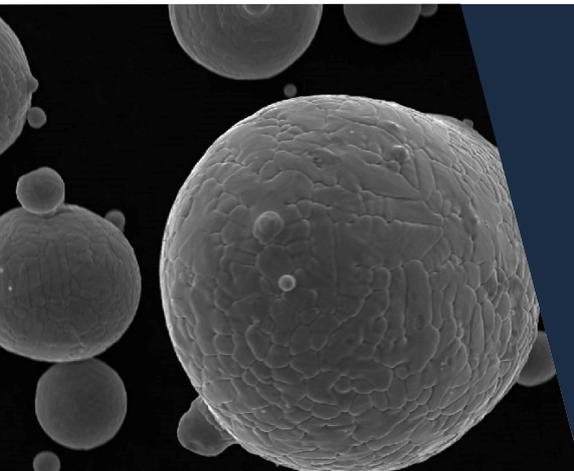


ANCOR AM 1.2709



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is a gas atomized maraging tool steel powder. 1.2709 is an 18% nickel, cobalt strengthened steel with excellent properties, workability and heat treatment characteristics. The alloy is very tough, but relatively soft until heat treated, so it can be readily machined. The absence of carbon is a benefit in additive manufacturing processes that use laser melting since rapid cooling generally leads to cracking in normal carbon containing tool steels.

CONTACT INFORMATION

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- > Spherical Powder for Additive Manufacturing
- > Particle Size Engineered for Laser Powder Bed Fusion (LPBF), Electron Beam Melting (EBM)
- > Rigorous Quality Testing to AS9100 "D"
- > Powder Size Available for Metal Injection Molding and DED, "Direct energy deposition"

Typical Powder Characteristics

Laser Particle Size Analysis [μm]				Powder Properties		Application
Size Type	D10	D50	D90	Flow	AD	
<25	6	15	23	--	--	MIM, Binder Jetting
15-53	20	35	50	14.3 S/50g	4.16 g/cm ³	LPBF
45-105	50	75	103	--	--	EBM, Laser Cladding

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Chemical Composition Nominal (wt%)						Maximum (wt%)			
Iron	Nickel	Cobalt	Molybdenum	Titanium	Aluminum	Oxygen	Carbon	Sulfur	Nitrogen
Bal.	17.9	9.0	4.8	0.7	0.1	0.04	0.03	0.01	0.01

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