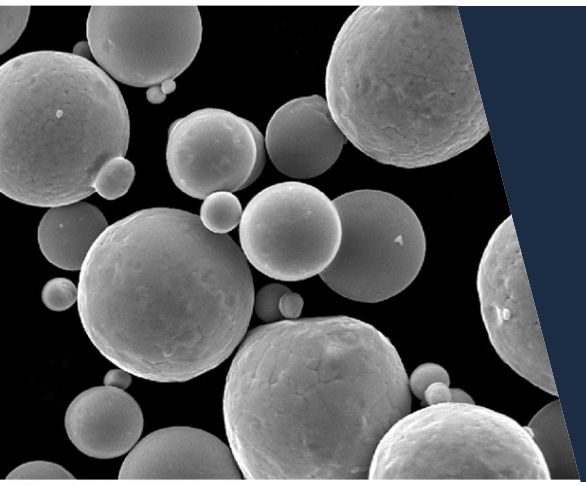
ANCOR AM 316L



ANCOR AM 316L

is a gas atomized stainless steel powder containing chromium, nickel and molybdenum. The material has an austenitic microstructure and is used in applications requiring superior resistance to intergranular corrosion. It has moderate tensile and high creep strengths at elevated temperatures. Parts made from 316L are generally limited to service temperatures of 800° F (425° C) above which chromium carbides precipitate.

CONTACT INFORMATION
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- Metal Powder for Additive Manufacturing
- Particle Size Engineered for Binder Jetting, Laser Powder Bed Fusion(LPBF), and Electron Beam Melting (EBM)
- Rigorous quality testing of each powder lot
- Powder Size Available for Metal Injection Molding and DED, "Direct energy deposition"
- Also Available Water-Atomized
- Additional Austenitic stainless steels available

Typical Powder Characteristics

Laser Particle Size Analysis [µm]				Powder Properties		Application
Size Type	D_{10}	D_{50}	D_{90}	Flow	AD	
<25	6	15	23	--	--	MIM, Binder Jetting
15-53	20	35	50	13.9 S/50g	4.56 g/cm³	LPBF
45-105	50	75	103	--	--	EBM, Laser Cladding

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Chemical Composition Nominal (wt%)				Maximum (wt%)				
Iron	Chromium	Nickel	Molybdenum	Manganese	Silicon	Oxygen	Carbon	Sulfur
Bal.	17.0	11.0	2.5	2.0	1.0	0.07	0.03	0.03