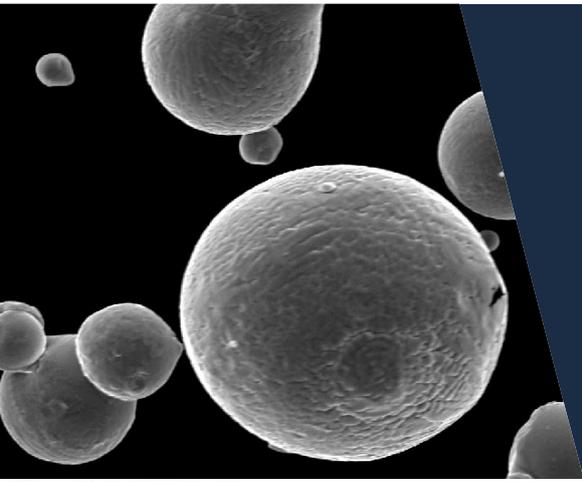


ANCOR AM IN718



ANCOR AM IN718

is a gas atomized austenitic nickel-chromium based superalloy powder. Parts made from this alloy exhibit excellent oxidation and corrosion resistance in aggressive environments. IN718 has excellent high temperature strength and creep resistance due to a combination of solution strengthening and precipitation hardening. Parts made from IN718 can be heat treated to improve strength and hardness.

CONTACT INFORMATION

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- > Spherical 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"

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	--	4.18 g/cm ³	LPBF
45-105	50	75	103	--	4.48 g/cm ³	EBM, Laser Cladding

ANCOR AM IN718

Chemical Composition Nominal (wt%)							Maximum (wt%)	
Nickel	Iron	Chromium	Niobium	Molybdenum	Titanium	Aluminum	Oxygen	Carbon
54.0	17.0	19.0	5.0	3.0	1.0	0.6	0.03	0.03

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