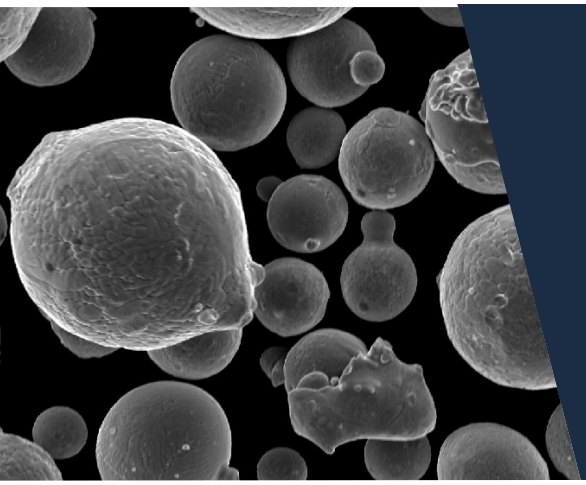
ANCOR AM 17-4PH



ANCOR AM 17-4PH

Is a martensitic precipitation hardening stainless steel that combines high strength and hardness with improved corrosion resistance when compared to carbon/nitrogen containing martensitic stainless steels powder is available water- or gas-atomized. 17-4 PH is widely used in environments where a level of corrosion resistance comparable to that of the austenitic grades is needed, but in applications that require higher strength and hardness than the austenitic grades can provide.

CONTACT INFORMATION
Additive Materials Expert
additivematerials@gknpm.com

- Metal Powder for Additive Manufacturing
- Particle Size Engineered for Binder Jetting, Laser Powder Bed Fusion (LPBF), Melting 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 precipitation hardenable 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	16.7 S/50g	4.04 g/cm³	LPBF
45-105	50	75	103	--	--	EBM, Laser Cladding

ANCOR AM 17-4PH

Chemical Composition Nominal (wt%)							Maximum (wt%)			
Iron	Chromium	Nickel	Copper	Manganese	Silicon	Niobium	Oxygen	Carbon	Sulfur	Nitrogen
Bal.	16.5	4.5	3.9	0.4	0.3	0.3	0.10	0.01	0.02	0.05