

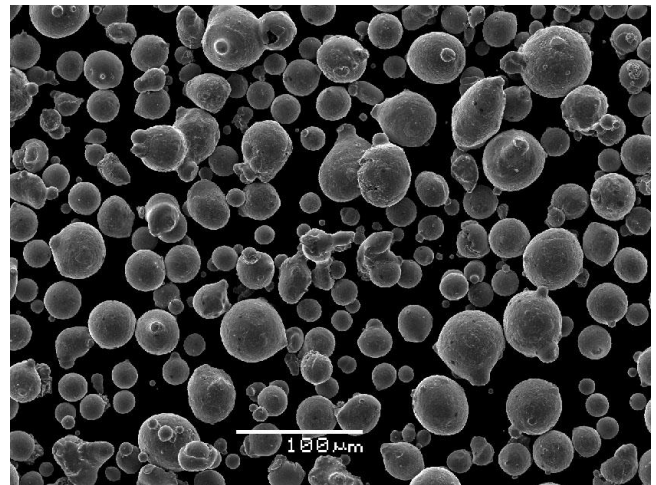
*Ancor AM 17-4 PH- is a gas atomized stainless steel powder. 17-4 PH is a martensitic precipitation hardening stainless steel that combines high strength and hardness with improved corrosion resistance when compared to carbon/nitrogen containing martensitic stainless steels. 17-4 PH is widely used in 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.*

### Typical Analysis

Chemistry - Typical (%)										
Chromium	Silicon	Manganese	Nickel	Copper	Nb + Ta	Iron	Carbon	Sulfur	Oxygen	Nitrogen
15.34	0.31	0.41	4.5	3.24	0.23	Bal	.015	.026	.100	.051

### Powder Physical Properties

		Laser Particle Size		
AD	Flow	d10	d50	d90
4.04	16.7	18.1	34.3	54.7



$x_{10} = 18.12 \mu\text{m}$       $x_{50} = 34.31 \mu\text{m}$       $x_{90} = 54.72 \mu\text{m}$       $S_{MD} = 29.25 \mu\text{m}$       $V_{MD} = 35.43 \mu\text{m}$   
 $x_{16} = 20.97 \mu\text{m}$       $x_{84} = 49.79 \mu\text{m}$       $x_{99} = 71.09 \mu\text{m}$       $S_v = 0.21 \text{ m}^2/\text{cm}^3$       $S_m = 730.05 \text{ cm}^2/\text{g}$

