

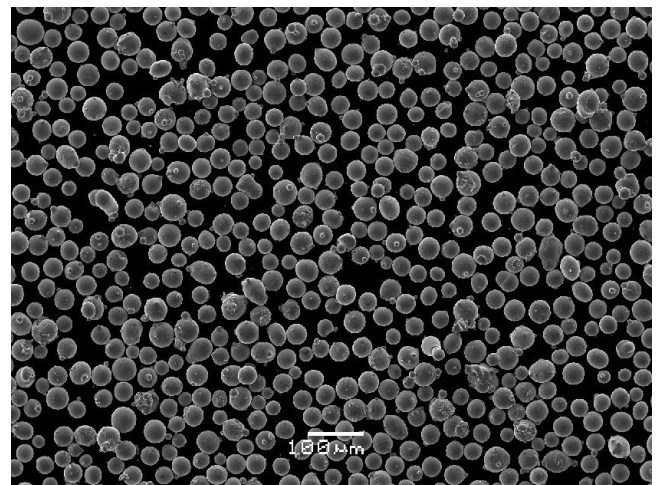
Ancor AM 316L- is a gas atomized stainless steel powder containing chromium, nickel and molybdenum. The material has an austenitic microstructure and is used in applications requiring superior resistance to intergranular corrosion. It has moderate tensile and creep strengths at elevated temperatures.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

Typical Analysis

Chemistry - Typical (%)									
Chromium	Silicon	Manganese	Nickel	Molybdenum	Iron	Carbon	Sulfur	Oxygen	Nitrogen
16.5	0.45	1.2	11	2.2	Bal	.012	.029	.069	.098

Powder Physical Properties

		Laser Particle Size		
AD	Flow	d10	d50	d90
4.56	13.9	16.3	34.6	50.9



$x_{10} = 16.32 \mu\text{m}$ $x_{50} = 34.56 \mu\text{m}$ $x_{90} = 50.92 \mu\text{m}$ $S_{MD} = 26.76 \mu\text{m}$ $V_{MD} = 34.50 \mu\text{m}$
 $x_{16} = 21.00 \mu\text{m}$ $x_{34} = 47.89 \mu\text{m}$ $x_{99} = 67.38 \mu\text{m}$ $S_V = 0.22 \text{ m}^2/\text{cm}^2$ $S_m = 798.00 \text{ cm}^2/\text{g}$

