

Stainless Steel 316L

Material Introduction

Introduction

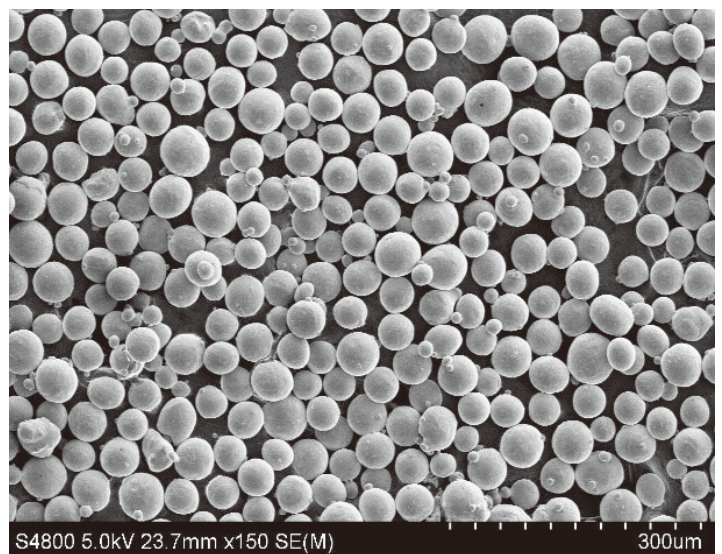
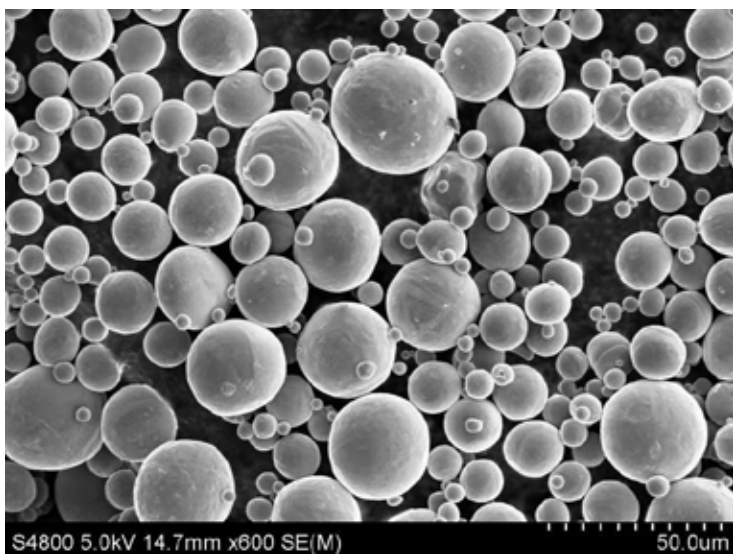
316L steel is a stainless steel material with excellent corrosion resistance and processing hardening properties.

Powder Chemical Composition (wt.%)

Element	Cr	Ni	Mo	Mn	Si
Content Range	16-18	12-15	2-3	≤2	≤1

Element	C	P	S	Fe	/
Content Range	≤0.03	≤0.03	≤0.03	Bal.	/

Powder EM Diagram (spherical degree of 0.9)



Advantages

316L is the superior choice for high corrosion, high ductility, high durability applications.

Tolerance

200 µm or 0.2%

Attributes

Performance	Printing State	Thermal Treatment State
Tensile Strength (Mpa)	600±50	550±50
Yield Strength (Mpa)	500±50	450±50
Hardness HRC/HV	215-10 HV5/15	190-10 HV5/15
Extensibility	34±5	45±5

Note: Surface hardness can vary greatly depending on how the specimen is prepared.

Applications

- 316L stainless steel is commonly used in life consumption, metal prototype, lightweight design, automobile industry, food and chemical industry, aerospace and other fields.