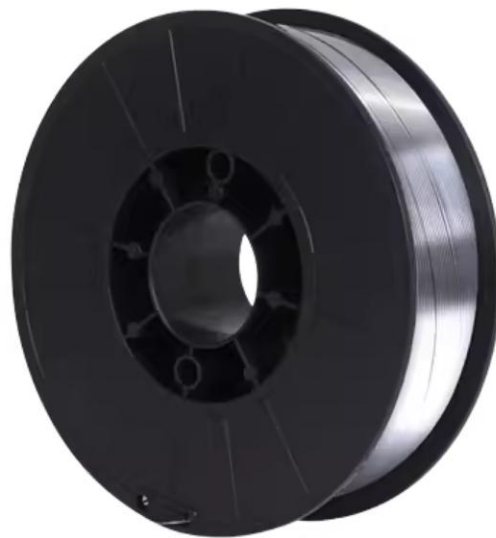


Used for welding 316/316L austenitic stainless steel, suitable for corrosion-resistant scenarios such as chemical equipment, marine engineering, and medical equipment.

Recommended process: MIG/MAG welding (shielding gas: Ar + 2~3% CO₂ or Ar + O₂ mixed gas).

■ Features:

- Excellent corrosion resistance: Molybdenum (Mo)-containing design, significantly better than 304 series in pitting and crevice corrosion resistance.
- Low carbon (L): Carbon content $\leq 0.03\%$, avoids intergranular corrosion, suitable for multi-layer welding.
- Stable process: Silicon (Si) improves the wettability of the molten pool, the weld is smooth and has less spatter.



Chemical properties

Element	C	Cr	Ni	Mo	Mn	Si	S	P
Content	≤ 0.03	18-22	12-14	2-3	1.0-2.5	0.65-1	≤ 0.03	≤ 0.03

Material properties

Characteristics	Value/Description
Tensile strength	≥ 520 MPa (75 ksi)
Yield strength	≥ 210 MPa (30 ksi)
Elongation (gauge length 50mm)	$\geq 35\%$
Impact toughness (-20°C)	≥ 100 J (Typical Value)
Electrical conductivity	$\approx 2.4\%$ IACS
Density	7.98 g/cm ³
Melting point	1375~1400°C