TIG SOLID WIRE

ER 316LSI

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

Features:

- Excellent corrosion resistance: Molybdenum (Mo)-containing design, significantly better than 304 series in pitting and crevice corrosion resistance.
- Low carbon (L): Carbon content ⩽ 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	≥240 MPa（30 ksi）
Elongation (gauge length 50mm)	≥35%
Electrical conductivity	≈2.4% IACS
Density	7.98 g/cm^3
Melting point	1375~1400℃