ST-316L

Classification

AWS	A5.9/ASME SFA-5.9 ER316L
JIS	Z 3321 YS316L
EN	ISO 14343-A-W 19 12 3L
KS	D7026 Y316L

Features

- Excellent crack resistance
- Excellent resistance to heat
- Excellent Arc stability and bead wetting

Current

DC -

Application Areas

- Shipbuilding
- Offshore structures
- Energy & power plants
- Pipe industry
- Steel structures
- Chemical industries and nuclear reactors

Shielding Gas

100% Ar

Approvals

ABS	BV	CCS	DNV	KR	LR	NK	RS	CWB	CE
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Cu	Ni	Cr	Mo
0.02	0.43	1.9	0.01	0.01	0.02	12.9	18.9	2.63

Typical Mechanical Properties of All-Weld Metal

Tensile Strength MPa(ksi)	Elongation (%)	Temperature °C (°F)	Impact Toughness J (ft·lbs)
590 (86)	45	-60 (-75) -196 (-320)	100 (74) 55 (41)

Wire Diameter & Packaging

Wire Diameter mm(in)	Packaging
1.6 (1/16)	5kg(11lbs)*1000
2.0 (5/64)	
2.4 (3/32)	
2.6 (0.10)	
3.2 (1/8)	