ST-316L

Low carbon 18%Cr-12%Ni-2%Mo STS

CE

Conformances

AWS A5.9/ ASME SFA5.9 ER316L
JIS Z3321 YS316L
EN ISO 14343-A W 19 12 3L
KR RY316L (-196°C ≥29 J)
ABS AWS A5.9 ER316L
LR 316L (-196°C)
BV 316L (KV -196°C)
DNV·GL VL 316L (-196°C)
NK KY316L
CCS 316L
CWB AWS A5.9 ER316L
CE

Applications

- Steel Structures - Chemical industries and nuclear reactors

Features

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

Current

DC -

Shielding Gas

Ar

Diameter / Packaging

Diameter	
mm (in)	5kg*1000
1.0 (0.039)	√
1.2 (0.045)	√
1.6 (1/16)	√
2.0 (5/64)	√
2.4 (3/32)	√
2.6 (0.10)	√
3.2 (1/8)	√

Typical Chemical Composition of the Wire(%)

C	Si	Mn	Cr	Ni	Mo
0.02	0.38	1.85	18.8	12.4	2.5

Typical Mechanical Properties of All-Weld Metal

TS MPa(lbs/in²)	EL (%)	Temp °C(°F)	CVN-Impact Value J (ft·lbs)
570 (82,700)	44	0 (32)	140 (103)