

ST-309L

22%Cr-12%Ni steel, 18%Cr-8%Ni clad steel, STS-CrMo, STS-Carbon steel



Conformances

AWS A5.9/ ASME SFA5.9 ER309L
 JIS Z3321 YS309L
 EN ISO 14343-A W 23 12L
 ABS AWS A5.9 ER309L
 LR SS/CMn
 BV 309L
 DNV-GL VL 309L
 NK KY309L
 CCS 309L
 CE

Applications

- Steel Structures - Oil, Textile industries, Nuclear reactor

Features

- Resistance to crack
- High efficiency
- Excellent resistance to heat

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
0.03	0.40	1.74	24.2	12.6

Typical Mechanical Properties of All-Weld Metal

TS MPa(lbs/in ²)	EL (%)	Temp °C(°F)	CVN-Impact Value J (ft-lbs)
600 (87,000)	38	0 (32)	150 (110)