

ST-312

29%Cr-9%Ni STS, joining of dissimilar-metal

Conformances

AWS A5.9/ ASME SFA5.9 ER312

JIS Z3321 YS312

EN ISO 14343-A W 29 9

Applications

- Welding of Dissimilar-metal STS to ferritic steel or special steel

Features

- Excellent corrosion resistance
- Excellent resistance to heat
- Excellent Arc stability 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
0.10	0.38	1.68	30.0	8.8

Typical Mechanical Properties of All-Weld Metal

TS MPa(lbs/in ²)	EL (%)
770 (111,600)	27

SMW

SAW

GMAW

GTAW

FCAW

Non-FERROUS

APPENDIX