

ST-309L

Classification

AWS	A5.9/ASME SFA-5.9 ER309L
JIS	Z 3321 YS309L
EN	ISO 14343-A-W 23 12L
KS	D7026 Y309L

Features

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

Current

DC -

Application Areas

- Shipbuilding
- Offshore structures
- Energy & power plants
- Pipe industry
- Steel structures
- Oil, textile industries, nuclear reactor

Shielding Gas

100% Ar

Approvals

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

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Ni	Cr
0.02	0.52	2.3	0.02	0.01	13.7	23.5

Typical Mechanical Properties of All-Weld Metal

Tensile Strength MPa(ksi)	Elongation (%)	Temperature °C (°F)	Impact Toughness J (ft·lbs)
580 (84)	43	-60 (-75)	85 (63)

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux

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)	

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