

S-309MoL16

Classification

- AWS

A5.4/ASME SFA-5.4 E309LMo-16
- JIS

Z 3221 ES309LMo-16
- EN

ISO 3581- A E 23 12 2 L R
- KS

D7014 E309MoL-16

Welding Positions



Features

- Good resistance to heat and crack
- Easy to remove slag
- Good bead appearance

Polarity

AC or DC+

Application Areas

- Welding of dissimilar steels
- Welding of low carbon 22%Cr-12%Ni-2.5%Mo stainless steel

Redrying Conditions

350°C (662°F) X 1hr

Approvals

DNV	CE	DB	TUV
✓	✓	✓	✓

Typical Chemical Composition of All-Weld Metal (wt%)

C	Si	Mn	P	S	Cu	Ni	Cr	Mo
0.02	0.62	1.0	0.026	0.016	0.04	12.6	22.8	2.3

Typical Mechanical Properties of All-Weld Metal

Tensile Strength MPa(ksi)	Elongation (%)	Temperature °C (°F)	Impact Toughness J (ft·lbs)
710(103)	33	-20(0) -60(-75)	45(33) 35(26)

SMAW

GMAW

GTAW

FCAW

Metal-cored Wire

SAW Wire

SAW Flux

Diameter / Welding Parameters / Packaging

Diameter mm(in)	Length mm(in)	F & HF	V-up, OH	Packaging
2.0 (5/64)	300 (12)	25~55	20~50	PVC - Packet 2.5kg(5.5lbs), Carton 10kg (22lbs)
2.6 (3/32)	300 (12)	50~85	45~80	
3.2 (1/8)	350 (14)	70~115	65~110	
4.0 (5/32)	350 (14)	95~145	85~135	
5.0 (3/16)	350 (14)	135~180	-	

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