

SM-316

Classification

AWS A5.9/ASME SFA-5.9 ER316
JIS Z 3321 YS316
EN ISO 14343-A G 19 12 3

Welding Positions



Features

- Excellent corrosion resistance
- Excellent resistance to heat
- Excellent Arc stability and bead wetting

Polarity

DC +

Application Areas

- Steel structures
- Chemical industries and nuclear reactors

Shielding Gas

Ar + 2% O2

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Cu	Ni	Cr	Mo
0.06	0.39	1.7	0.01	0.01	0.02	12.6	19.4	2.5

Typical Mechanical Properties of All-Weld Metal

Shielding Gas	Tensile Strength MPa(ksi)	Elongation (%)
Ar + 2% O2	580 (84)	39

Diameter / Welding Parameters / Packaging

Wire Diameter mm(in)	Packaging
0.9 (0.035), 1.0 (0.039), 1.2 (0.045), 1.4 (0.052), 1.6 (1/16)	Spool 12.5kg(28lbs) Drum 250kg (551lbs)

SM-AW

GM-AW

GT-AW

FC-AW

Metal-cored Wire

SAW Wire

SAW Flux