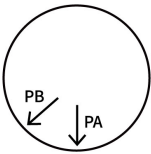


SM-80G

Classification

AWS A5.28/ ASME SFA-5.28 ER80S-G
JIS Z 3312 G 59J A 1 U C 3M1T
EN ISO 14341-B G 57A 5 C1 S3M1T

Welding Positions



Features

- High deposition rate
- Special alloying elements added

Polarity

DC +

Application Areas

- General fabrication
- Pressure vessels
- Machinery

Shielding Gas

100% CO2

Approvals

ABS	CE
✓	✓

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Mo
0.05	0.76	1.91	0.013	0.003	0.28

Typical Mechanical Properties of All-Weld Metal

Shielding Gas	Yield Strength MPa(ksi)	Tensile Strength MPa(ksi)	Elongation (%)	Temperature °C (°F)	Impact Toughness J (ft · lbs)
100% CO2	570 (83)	640 (93)	28	-30 (-20) -50 (-60)	95 (70) 35 (26)

Diameter / Welding Parameters / Packaging

Wire Diameter mm(in)	Packaging
1.0 (0.039), 1.2 (0.045), 1.4 (0.052), 1.6 (1/16)	Spool 15kg(33lbs), 20kg (44lbs) Drum 250kg (551lbs), 300kg (661lbs), 350kg (771lbs)

SM-AW

GM-AW

GT-AW

FC-AW

Metal-cored Wire

SAW Wire

SAW Flux