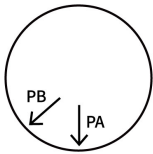


SM-70G

Classification

AWS A5.18/ ASME SFA-5.18 E70S-8
JIS Z 3312 YGW11
EN ISO 14341-A G3Si1

Welding Positions



Features

- Good performance with high current
- High deposition rate
- Deep penetration

Polarity

DC +

Application Areas

- Structural fabrication
- Shipbuilding
- Automotive
- Machinery

Shielding Gas

100% CO2
Ar + 20% CO2

Approvals

ABS	BV	DNV	KR	LR	NK
✓	✓	✓	✓	✓	✓

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Ti
0.06	0.82	1.53	0.013	0.009	0.19

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	460 (67)	560 (81)	29	0 (32) -30 (-20)	155 (114) 90 (66)
Ar + 20% CO2	470 (68)	570 (83)	27	0 (32) -30 (-20)	130 (96) 70 (52)

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)

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux