

SC-70ML

Classification

AWS AWS A5.18/ ASME SFA-5.18 E70C-6M
JIS Z 3313 T49 4 T15-1 M A-U
EN ISO 17632-A T46 4 M M21 2 H5

Welding Positions



Features

- Designed for welding with Ar+CO2 mixed gas
- High deposition rates & minimal slag coverage
- Good impact value at low temperature
- Meets AWS D1.8 seismic requirements

Polarity

DC+

Application Areas

- Structural fabrication
- Steel industry
- Heavy equipment & machinery
- Shipbuilding

Shielding Gas

Ar+20~25% CO2

Approvals

ABS	BV	DNV	LR	RINA	CWB	CE	DB	TUV
✓	✓	✓	✓	✓	✓	✓	✓	✓

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

Shielding Gas	C	Si	Mn	P	S	Ni
Ar+20~25% CO2	0.04	0.56	1.57	0.010	0.010	0.34

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)
Ar+20~25% CO2	476 (69)	553 (80)	26.5	-30 (-20) -40 (-40)	86 (63) 75 (55)

Diameter / Welding Parameters / Packaging

Wire Diameter mm(in)	Current (A)
1.2 (0.045)	140~300

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux