

ST-50.3

Classification

AWS

EN

A5.18/ASME SFA-5.18 ER70S-3

ISO 636-A-W2Si

Features

- Good impact value at low temperature
- Good workability and Bead Appearance
- Good performance

Application Areas

- Pressure vessels
- Nuclear reactors
- Rail road car
- Shipbuilding
- Pipeline

Approvals

ABS
✓

Typical Chemical Composition of the Wire (wt%)

C	Si	Mn	P	S	Cu
0.07	0.65	1.15	0.009	0.009	0.05

Typical Mechanical Properties of All-Weld Metal

Yield Strength MPa(ksi)	Tensile Strength MPa(ksi)	Elongation (%)	Temperature °C (°F)	Impact Toughness J (ft·lbs)
430 (62)	540 (78)	30	-20 (0) -40 (-40)	150 (111) 105 (77)

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux

Wire Diameter & Packaging

Wire Diameter mm(in)	Packaging
1.2 (0.045)	5kg(11lbs)*1000
1.6 (1/16)	
2.0 (5/64)	
2.4 (3/32)	
2.6 (0.10)	
3.2 (1/8)	

- SMW
- GMW
- GTW
- FCW
- Metal-cored Wire
- SAW Wire
- SAW Flux