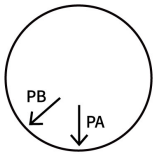


SM-70GS

Classification

**AWS** A5.18/ ASME SFA-5.18 ER70S-G  
**JIS** Z 3312 YGW15  
**EN** ISO 14341-A G2Si

Welding Positions



Features

- Mixed gas
- Good performance high-current

Polarity

DC +

Application Areas

- Shipbuilding
- Structural fabrication
- Machinery

Shielding Gas

Ar + 20% CO2

Approvals

|    |
|----|
| LR |
| ✓  |

Typical Chemical Composition of the Wire (wt%)

| C    | Si   | Mn   | P     | S     | Ti   |
|------|------|------|-------|-------|------|
| 0.04 | 0.62 | 1.21 | 0.015 | 0.006 | 0.11 |

Typical Mechanical Properties of All-Weld Metal

| Shielding Gas | Yield Strength<br>MPa(ksi) | Tensile Strength<br>MPa(ksi) | Elongation<br>(%) | Temperature<br>°C (°F) | Impact Toughness<br>J (ft · lbs) |
|---------------|----------------------------|------------------------------|-------------------|------------------------|----------------------------------|
| Ar + 20% CO2  | 480 (70)                   | 550 (80)                     | 28                | 0 (32)<br>-30 (-20)    | 155 (114)<br>100 (74)            |

Diameter / Welding Parameters / Packaging

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

SM-AW

GM-AW

GT-AW

FC-AW

Metal-cored Wire

SAW Wire

SAW Flux