

ST-50G

Mild Steel & 490 MPa high tensile steels

Conformances

AWS A5.18/ ASME SFA5.18 ER70S-G
 JIS Z3316 YGT50
 EN ISO 636-A-W3Si1
 KR 3YSG
 ABS AWS A5.18 ER70S-G (-50°C)
 LR 3YH15
 BV UP(-20°C)
 DNV-GL IIIYMS
 NK KSW53G
 CCS 3YS

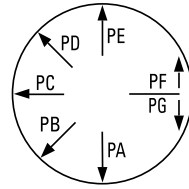
Applications

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

Features

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

Welding Position



Current

DC -

Shielding Gas

Ar

Diameter / Packaging

| Diameter | PVC TUVE |
|-------------|-------------|
| mm (in) | 5kg (11lbs) |
| 1.2 (0.045) | ✓ |
| 1.6 (1/16) | ✓ |
| 2.0 (5/64) | ✓ |
| 2.4 (3/32) | ✓ |
| 3.2 (1/8) | ✓ |

Typical Chemical Composition of the Wire(%)

| C | Si | Mn | | |
|------|------|------|--|--|
| 0.07 | 0.83 | 1.43 | | |

Typical Mechanical Properties of All-Weld Metal

| | YS MPa(lbs/in ²) | TS MPa(lbs/in ²) | EL (%) | Temp °C(°F) | CVN-Impact Value J (ft-lbs) |
|------------------------|---------------------------------|---------------------------------|-----------|----------------|--------------------------------|
| As welded with 100% Ar | 460 (66,700) | 530 (76,900) | 27 | -20 (-4) | 170 (125) |