

ST-316

Classification

|     |                         |
|-----|-------------------------|
| AWS | A5.9/ASME SFA-5.9 ER316 |
| JIS | Z 3321 YS316            |
| EN  | ISO 14343-A-W 19 12 3   |
| KS  | D7026 Y316              |

Features

- Excellent crack resistance
- Excellent resistance to heat
- Excellent Arc stability and bead wetting

Current

DC -

Application Areas

- Steel structures
- Chemical industries and nuclear reactors

Shielding Gas

100% Ar

Approvals

|     |    |
|-----|----|
| ABS | CE |
| ✓   | ✓  |

Typical Chemical Composition of the Wire (wt%)

| C    | Si   | Mn  | P    | S    | Cu   | Ni   | Cr   | Mo   |
|------|------|-----|------|------|------|------|------|------|
| 0.05 | 0.36 | 1.9 | 0.01 | 0.01 | 0.02 | 12.9 | 18.5 | 2.62 |

Typical Mechanical Properties of All-Weld Metal

| Tensile Strength<br>MPa(ksi) | Elongation<br>(%) | Temperature<br>°C (°F) | Impact Toughness<br>J (ft·lbs) |
|------------------------------|-------------------|------------------------|--------------------------------|
| 630 (91)                     | 45                | -60 (-75)              | 90 (66)                        |

Wire Diameter & Packaging

| Wire Diameter<br>mm(in) | Packaging       |
|-------------------------|-----------------|
| 1.6 (1/16)              | 5kg(11lbs)*1000 |
| 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