

# ST-347

18%Cr-8%Ni-Nb(STS 347) & 18%Cr-8%Ni-Ti(STS 321)

## Conformances

AWS A5.9/ ASME SFA5.9 ER347

JIS Z3321 YS347

EN ISO 14343-A W 199 Nb

## Applications

- Welding of boiler and gas turbine

## Features

- Resistant to crack is good
- Nb contents improves corrosion resistance and heat resistance

## Current

DC -

## Shielding Gas

Ar

## Diameter / Packaging

| Diameter    |          |
|-------------|----------|
| mm (in)     | 5kg*1000 |
| 1.0 (0.039) |          |
| 1.2 (0.045) |          |
| 1.6 (1/16)  | ✓        |
| 2.0 (5/64)  | ✓        |
| 2.4 (3/32)  | ✓        |
| 2.6 (0.10)  | ✓        |
| 3.2 (1/8)   | ✓        |

## Typical Chemical Composition of the Wire(%)

| C    | Si   | Mn   | Cr   | Ni  | Nb  |
|------|------|------|------|-----|-----|
| 0.05 | 0.43 | 1.66 | 20.0 | 9.6 | 0.7 |

## Typical Mechanical Properties of All-Weld Metal

| TS                        | EL  |
|---------------------------|-----|
| MPa(lbs/in <sup>2</sup> ) | (%) |
| 680 (98,600)              | 32  |