

# ST-316

18%Cr-12%Ni-2%Mo STS



## Conformances

AWS A5.9/ ASME SFA5.9 ER316  
JIS Z3321 YS316  
EN ISO 14343-A W 19 12 3  
ABS AWS A5.9 ER316  
CE

## Applications

- Steel Structures - Chemical industries and nuclear reactors

## Features

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

## 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	Mo
0.05	0.41	1.82	18.9	12.5	2.5

## Typical Mechanical Properties of All-Weld Metal

TS MPa(lbs/in <sup>2</sup> )	EL (%)	Temp °C(°F)	CVN-Impact Value J (ft-lbs)
590 (85,600)	41	0 (32)	130 (95)