### HINDUSTAN INOX LTD

### **Technical Information**

#### Stainless Steel Bare Wire

Alloy:HIL309LSi Conforms to Certification : AWS A5.9

Class: ER309LSi ASME SFA A5.9

# Alloy ER309LSi Welding data

Weld Process: Used for Mig, Tig & Submerged arc

#### AWS Chemical Composition Requirements

Type of Filler wire

P=0.030max	GMAW " Mig Filler wire"
S-0.030max	Diameter Range
Mo=0.75max	0.80-1.6mm
Cu=0.75max	0.030"-1/16"
Ni=12.0-14.0	GTAW " Tig Process "
	Diameter Range
	1.60-4.00mm
	1/16"-5/32"
	S-0.030max Mo=0.75max

Submerged Arc Welding

# Diameter Range

1.60-4.00mm 1/16"-5/32"

### **Deposited Chemical Composition % (Typical)**

C = 0.017 Si = 0.85 Mn = 1.87 P = 0.013 S = 0.010 Cr = 23.65

Ni = 12.80

# Deposited All Weld Metal Properties

Data is typical for ER309LSi weld metal deposited by mig using Argon+2% oxygen and Tig using 100% Argon as the shielding gas. Data on Sub-arc is not presented, as sub-arc is dependent on the type of flux used.

# Mechnical Properties (R.T.)

Yield strength395 MPaTensile strength613 MPaElongation38%Reduction of area60%

#### Application

ER-309LSi is suitable for joining Stainless steels of the 304 type and 347 type. The higher silicon gives are stability and exceptinally smooth bead appearance.



If additional information is needed contact Hindustan Inox Ltd . +912243401414, sales@hindustaninox.com