HINDUSTAN INOX LTD

Technical Information

Stainless Steel Bare Wire

Alloy:HIL308LSi Conforms to Certification : AWS A5.9

Class : ER308LSi ASME SFA A5.9

Alloy ER308LSi Welding data

Weld Process: Used for Mig, Tig & Submerged arc

AWS Chemical Composition Requirements Type of Filler wire

C=0.030max P=0.030max <u>GMAW " Mig_ Filler wire"</u>

 Si=0.65-1.00
 S-0.030max
 Diameter Range

 Mn=1.0-2.50
 Mo=0.75max
 0.80-1.6mm

 Cr=19.50-22.0
 Cu=0.75max
 0.030"-1/16"

Ni=9.0-11.0 GTAW " Tig Process "

Diameter Range
1.60-4.00mm

1/16"-5/32"

Submerged Arc Welding

Deposited Chemical Composition % (Typical) Diameter Range

1.60-4.00mm C = 0.018 Si = 0.86 Mn = 1.68 1/16"-5/32"

P = 0.016 S = 0.007 Cr = 20.20

Ni = 10.10

Deposited All Weld Metal Properties

Data is typical for ER308LSi weld metal deposited by mig using Argon+2% oxygen and Tig using 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 strength 380 MPa
Tensile strength 610 MPa
Elongation 39%
Reduction of area 65%

Application

ER308Si is suitable for joining stainless steel of the 304 type and 308 types.welding speed is higher that 308 or 308L due to improved weldability of the weld metal.



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