Stainless Steel Gas Shielded Welding Rod

ELOX SG 318

Standards

TS EN ISO 14343-A	: W 19 12 3 Nb
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AWSA5.9	: ER 318

Chemical Composition of Welding Wire % (Typical)

C	Si	Mn	Cr	Ni	Mo	Nb
0.035	0.50	1.7	19.6	11.4	2.7	+

Mechanical Properties

Yield Strength (N/mm^2)	Tensile Strength (N/mm^2)	Impact Strength (ISO-V/+20°C)	Elongation ($(L_o=5d_o)$ (%))
min. 440	640 - 780	min. 63 J	min. 30

Typical Base Material Grades

- X6 CrNiMoTi 1712 2, X6 CrNiMoNb 1712 2, X5 CrNiMo 1712 2, G-X5 CrNiMoNb 18 10, X10 CrNiMoNb 18 12
- AISI: 316, 316Cb, 316L, 316Ti

Features and Applications

- TIG welding of 13% ferritic stainless steels as well as of stainless steels of similar chemical compositions as those of welding wires used in chemical, textile, paint, food and synthetic resin production
- As the shielding gas, argon(Ar) is used
- Maintenance of resistance to intergranular corrosion at temperature values up to 400 °C

Welding Positions

Current Type

TIG D.C.(-)

Operating Data

Product Code	Diameter x Length (mm) / (inch)		Weight (Kg)	Package Type
6011100401	1.6 x 1000	1/16 x 39”	5	Plastic Box
6011100356	2.0 x 1000	5/64 x 39”	5	Plastic Box
6011100180	2.4 x 1000	3/32 x 39”	5	Plastic Box

Approvals: CE, SEPRO