

# Stainless Steel Gas Shielded Welding Wire



## ELOX SG 318

**Standards :**

TS EN ISO 14343-A :	W 19 12 3 Nb
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AWS A5.9 :	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 (TIG) :**

Yield Strength (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Impact Strength (ISO-V/+20°C)	Elongation (L <sub>0</sub> =5d <sub>0</sub> )(%)
min. 440	640 - 780	min. 63 J	min. 30

**Typical Base Material Grades :**

\* X6 CrNiMoTi 17 12 2, X6 CrNiMoNb 17 12 2, X5 CrNiMo 17 12 2, G-X5 CrNiMoNb 18 10, X10 CrNiMoNb 18 12, 316, 316Cb, 316L, 316 Ti

**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 :**

Diameter x Length (mm)	Diameter x Length (inch)	Weight Kg	Package Type
1.6 x 1000	1/16 x 39"	5	Plastic Box
2.0 x 1000	5/64 x 39"	5	
2.4 x 1000	3/32 x 39"	5	

**Approvals :**

GOST-R, SEPRO