ELOX SG 312

Standards

TS EN ISO 14343-A	: G 29 9
EN ISO 14343-A	: G 29 9
TS EN ISO 14343-A	: W 29 9
EN ISO 14343-A	: W 29 9
AWS A5.9	: ER 312

Chemical Composition of Welding Wire % (Typical)

C	Si	Mn	Cr	Ni
0.12	0.40	1.80	30.0	9.0

Mechanical Properties

Yield Strength (N/mm^2)	Tensile Strength (N/mm^2)	Impact Strength (ISO-V/+20°C)	Elongation ($(L_o=5d_o)$ (%))
min. 450	min. 660	47 J	min. 20

Typical Base Material Grades

DIN:	X7Cr13	G-X 7 Cr 13	AISI:	403
	X7CrAl13	G-X 20 Cr 14		405
	X10CrAl13	G-X 10 Cr Mo 13		410
	X 8 Cr17	G-X 8 Cr Ni 13		420
	X20Cr13			430
	X 15Cr 13			430 Ti
	X22CrNi17			431
	X15CrNi134			446
	X 8 Cr Ti 17			

Features and Applications

- Applicability in joint- welding of unalloyed and alloyed high-strength steels, Cr and Mn steels, tool steels, and of different metals
- Resistance to wearing, cracking and corrosion
- Requirement of use of Ar as shielding gas in TIG welding, and Ar+ %2.5 O_2 or Ar+ %2.5 CO_2 mix as shield gas in MIG welding

Welding Positions

Current Type

TIG D.C.(-) / MIG D.C.(+)

Operating Data

Product Code	Diameter x Length (mm) / (inch)		Weight (Kg)	Package Type
6011100153	0,8	0.030”	15	BS 300
6011100343	1	0.040”	15	BS 300
6011100156	1,2	0.047”	15	BS 300
6011100157	1,60 x 1000	1/16 x 39”	5	Plastic Box
6011100344	2,00 x 1000	5/64 x 39”	5	Plastic Box
6011100345	2,40 x 1000	3/32 x 39”	5	Plastic Box

Approvals: CE, SEPRO