

AX-308L

Mat.-No.:1.4316

Classifications

EN ISO 14343-A	G/W 19 9 L (Si)
Material-number	1.4316
AWS A-5.9	ER 308L (Si)

Characteristics and field of use

TIG-rods/MIG wire for use in all industrial areas, for joining and surfacing applications with matching and similar – stabilized and non-stabilized – austenitic CrNi(N) and CrNiMo(N) steels/cast steel grades.

Resistant to intercrystalline corrosion and wet corrosion up to 350 °C. Corrosion-resistant to matching low carbon and stabilized austenitic 18/8 CrNi(N) steel/cast steel grades.

Excellent lubricity and transport properties. Very good welding- and flow behaviour.

Cold toughness at subzero temperatures as low as -196 °C.

Typical Analysis in %:

C	Si	Mn	Cr	Ni
0,02	0,8	1,7	20	10

Materials

1.4306 X 2 CrNi 19 11 1.4301 X 5 CrNi 18 10
 1.4306 G-2 X CrNi 18 9 1.4303 X 5 CrNi 18 12 1.4311 X 2 CrNiN 18 10 1.4308 G-X 6 CrNi 18 9
 1.4310 X 12 CrNi 17 7 1.4319 X 5 CrNi 18 7 1.4541 X 6 CrNiTi 18 10 1.4550 X 6 CrNiNb 18 10
 1.4552 G-X 5 CrNiNb 18 9

Mechanical properties of the weld metal

Shielding gas Heat-treatment Test temperature	°C	Welding-Argon untreated 20 °C
0,2%-Yield strength MPa	[N/mm ²]	360
Tensile strength MPa	[N/mm ²]	600
Elongation (L0= 5d0)%	[%]	35
Impact values Av	[J]	75

Applicable shielding gas (EN 14175) TIG/MAG

Welding Argon; Mixed gas for example. M 11, M23

Approvals

(Present level ask on demand)

Delivery form

Coils	Ø mm	0,8	1,0	1,2	1,6		
Rods	Ø mm x 1000mm	1,6	2,0	2,4	3,2	4,0	5,0

*Additional dimensions on request