

AX-316L

Mat.-No.: 1.4430

Classification

EN ISO 14343-A	G/W 19 12 3 L (Si)
Material-Number	1.4430
ASTM/AWS/SFA-5.9	ER 316L (Si)

Application:

CrNiMo-wire/rod with low carbon for joining and surfacing corrosion resistant and sub-zero tough austenitic Steels for service temperatures from -60°C up to + 400°C..

Chemical composition , Element by weight (%)

C	Si	Mn	Cr	Ni	Mo
0,02	0,8	1,7	18	12	2,7

Important Base Materials

1.4404 X 2 CrNiMo 17 13 2 1.4571 X 6 CrNiMoTi 17 12 2 1.4404 G-2 X CrNiMo 18 10
 1.4573 X 10 CrNiMoTi 18 12 1.4406 X 2 CrNiMoN 17 12 2 1.4580 X 6 CrNiMoNb 17 12 2
 1.4429 X 2 CrNiMo 17 13 3 1.4581 G-X 5 CrNiMoNb 18 10 1.4435 X 2 CrNiMo 18 14 3
 1.4583 X 10 CrNiMoNb 18 12 1.4401 X 5 CrNiMo 17 12 2 1.4420 X 5 CrNiMo 18 11
 1.4408 G-X 6 CrNiMo 18 10 1.4436 X 5 CrNiMo 17 13 3

Mechanical properties

Welding process Shielding gas Heat treatment Test temperature	°C	MIG/TIG Welding Argon Untreated 20°C
Yield strength $R_{p0,2}$	[N/mm ²]	380
Tensile strength R_m	[N/mm ²]	600
Elongation (A)	[%]	35
Impact energy (Av)	[J]	130

Shielding Gas (MIG/TIG)

Mixed gases like Welding-Argon, Mixed gases like M 11, M 23
And taking into account the carburization M 32, M 13 und M 21

Approvals

(Actual available approvals on request)

Delivery forms

Spools	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