

AX-347

Mat.-No.: 1.4551

Classification

EN ISO 14343-A	G/W/S 19 9 Nb Si
Material-No.:	1.4551
AWS A-5.9	ER347 Si

Application:

Stainless; resistant to intercrystalline corrosion and wet corrosion up to 400°C. Corrosion-resistant similar to matching stabilized austenitic CrNi steels/cast steel grades.

For joining and surfacing application with matching and similar – stabilized and non-stabilized – austenitic CrNi(N) steels and cast steel grades.

Chemical composition, Element by weight (%)

C	Si	Mn	Cr	Ni	Nb+Ta
0,04	0,8	1,4	19	10	<1,1

Important Base Materials

Stabilized austenitic CrNi Steels/cast steel grades like

1.4301 X 5 CrNi 18 10	1.4550 X 6 CrNiNb 18 10	1.4541 X 6 CrNiTi 18 10
1.4840 G-X 15 CrNi 25 20	1.4308 G-X 6 CrNi 18 9	1.4303 X 5 CrNi 18 12
1.4312 G-X 10 CrNi 18 8	1.4306 X 2 CrNi 19 11	1.4310 X 12 CrNi 17 7
1.4306 G-X 2 CrNi 18 9		1.4319 X 5 CrNi 18 7

Mechanical properties

Shielding Gas Heat treatment Test temperature	°C	Welding Argon untreated 20°C
Yield strength $R_{p0,2}$	[N/mm ²]	390
Tensile strength R_m	[N/mm ²]	590
Elongation A (L ₀ = 5d ₀)%	[%]	32
Impact energy A_v	[J]	80

Shielding Gas (MIG/TIG)

Welding Argon, Mixed Gases like (EN 439) M12, M13

Approval

(Actual available approval on request)

Lieferform

Coils BS300	Ø mm	0,8	1,0	1,2	1,6			
Rods 1000mm	Ø mm x 1000mm	1,0	1,6	2,0	2,4	3,2	4,0	5,0
K415/100	Ø mm	2,0	2,4	3,2	4,0			