

TIGWELD 347Si

TIG Rods [GTAW]

Stainless and high alloyed steels

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 14343-A : W 19 9 Nb Si DIN 8556 : SG-X5 CrNiNb19 9 AWS A-5.9 : ER 347 Si W.Nr. : 1.4551		Power generation industry Constructions & Engineering Metallurgy (Steelworks) Petrochemical and chemical industry

Stainless steel welding TIG rods, stabilized with Ni. Very good corrosion resistance, recommended for chemical, petrochemical, food industry up to 400°C. The joint is oxidation resistant up to 800°C.

Base material

AISI/ASTM	DIN	W.Nr.	PN
304	X5 CrNi 18 10	1.4301	0H18N9
321	X6 CrNiTi 18 10	1.4541	0H18N10T, 1H18N9T, 1H18N10MT
347	X6 CrNiNb 18 10	1.4550	0H18N12Nb
	G-X6CrNi 18 9	1.4308	
	G-X5CrNiNb 18 9	1.4552	
A157, 305	G-X10CrNi 18 8	1.4312	
	X10 CrNiNb18 10	1.6905	
405	X7 CrAl13	1.4002	
410	X10 Cr13	1.4006	
430	X8 Cr17	1.4016	H17
410/420	X15 Cr13	1.4024	
420	X20 Cr13	1.4021	
430Ti	X8 CrTi17	1.4510	0H17T
430Ti	X8 CrNb17	1.4511	
409	X5 CrTi12	1.4512	

Chemical composition %

C	Si	Mn	Cr	Ni	Nb
0,06	0,70	2,00	19,00	9,00	0,70

Mechanical properties

Yield strength Re [N/mm ²]	>350
Tensile strength Rm [N/mm ²]	570-670
Elongation A5 [%]	>30
Impact energy Kv [J]	>60J (20°C) /
Shielding gases acc. to EN ISO 14175	I1 - Ar /