TIGWELD 318Si

TIG Rods [GTAW]

Stainless and high alloyed steels

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 14343-A : W 19 12 3 Nb Si DIN 8556 : SG-X5 CrNiMoNb19 12 AWS A-5.9 : ER 318 Si W.Nr. : 1.4576		Power generation industry Constructions & Engineering Petrochemical and chemical industry

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

Base material

DIN	W.Nr.	AISI/ASME	PN
X5CrNiMo 17 12 2	1.4401	316	0H17N12M2T
X6CrNiMoTi 17 12 2	1.4571	316Ti	H17N13M2T, H18N10MT
X3CrNiMo 17 13 3	1.4436	316	
X6CrNiMoTi 17 12 2	1.4579		
X2CrNiMo 17 12 2	1.4404	316L	00H17M14M2
X2CrNiMo 18 14 3	1.4435	316L	
X2CrNiMoN 17 11 2	1.4406	316LN	
X2CrNiMoN 17 13 3	1.4429		
GX5CrNiMo 19 11	1.4408	CF 8N	
X6CrNiMoNb 17 12 2	1.4580	316Cb	
X6CrNiNb 18 10	1.4550	347	
GX5CrNiNb 19 10	1.4552	CF-8C	
X6CrNiMoNb 17 12 2	1.4581	316Cb	
X10CrNiMoTi 18 12	1.4573	316Ti	
X10CrNiMoNb 18 12	1.4583	316Cb	
G-X 10CrNiMo18 9	1.4410	A 351 GradeCF3M	

Chemical composition %

C	Si	Mn	Cr	Ni	Mo	Nb
<0,05	0,80	1,50	19,00	12,00	2,80	12 x %C

Mechanical properties

Yield strength Re [N/mm2]	>380
Tensile strength Rm [N/mm2]	>550
Elongation A5 [%]	>30
Impact energy Kv [J]	>70J (20°C) /
Shielding gases acc. to EN ISO 14175	I1 - Ar /