

Product Data Sheet

OK Tigrod 316LSi

W 'Tungsten inert gas arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
Mats Linde	Tero Borg	Jay A Coubrough	EN007219	EN006310	2016-05-05	1 (2)

REASON FOR ISSUE

Adjustment of N for PDS, PR and PS to match

GENERAL

Bare corrosion resisting chroumium-nickel-molybdenium rods for welding of austenitic stainless alloys of 18% Cr-8% Ni and 18% Cr-10% Ni-3% Mo types.

OK Tigrod 316LSi has a good general corrosion resistance, in particularly the alloy has very good resistance against corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended where there is a risc of intergranular corrosion. The higher silicon content improves the welding properties, such as wetting. The alloy is widely used in the chemical and food processing industries as well as in ship building and various types of architectural structures.

Shielding Gas: I1 (EN ISO 14175)

Alloy Type: Austenitic (with approx. 8 % ferrite) 19% Cr - 12% Ni - 3% Mo - Low C- High Si

CLASSIFICATION	S Wire Electrode	APPROVALS		
EN ISO 14343-A	W 19 12 3 L Si	BV	316L BT	
SFA/AWS A5.9	ER316LSi	CE	EN 13479	
Werkstoffnummer	~1.4430	DB	43.039.06	
		DNV	316L (-196°C)	
		GL	4429 (I1)	
		NAKS/HAKC	2.0MM-2.4MM	
		VdTÜV	05336	
		APPROVAL COMMENT		
		Valid for lot numbers starting with PV		

CHEMICAL COMPOSITION

All Weld

	Metal (%) Shielding gas;Ar		F (1-7)		
	Nom	Min	Max		
C Si Mn P S Cr Ni Mo Cu N Ferrite FN Others tot	0.01 0.8 1.8 0.02 0.01 18 12 2.8 0.1	0.65 1.5 0.005 18.0 11.0 2.5	0.030 1.00 2.3 0.030 0.020 20.0 13.0 3.0 0.5 0.110		

Wire/Strip (%)



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MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

	As welded	
Properties	Min	Тур
Rp0.2 (MPa) Rm (MPa) A4-A5 (%)	320 510 25	500 630 33
Charpy V at 20°C (J) Charpy V at -110°C (J) Charpy V at -196°C (J)		175 110 90