

Product Data Sheet

OK Tigrod 316LSi

W 'Tungsten inert gas arc welding'

Signed by	Approved by	Reg no	Cancelling	Reg date	Page
MALI	Per-Åke Pettersson/Christos Skodras	EN004669	EN004104	2008-12-19	1 (2)

REASON FOR ISSUE

GL added

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 439) Alloy Type: Austenitic (with approx. 8 % ferrite) 19% Cr -

12% Ni - 3% Mo - Low C- High Si

CLASSIFICATIONS Wire Electrode		APPROVAL	S
EN ISO 14343	W 19 12 3 LSi	CE	EN 13479
SFA/AWS A5.9	ER316LSi	DB	43.039.06
Werkstoffnummer	~1.4430	DNV	316L
		GL	4429
		VdTÜV	05336

CHEMICAL COMPOSITION

All Weld Metal (%)	Wire/Strip (%)	
gas;Ar		
Nom	Min	Max
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 0.3 0.08 0.50
	Metal (%) Shielding gas;Ar Nom 0.01 0.8 1.8 0.02 0.01 18 12 2.8	Metal (%) Shielding gas;Ar Nom Min 0.01 0.8 0.65 1.8 0.02 0.01 0.005 18 18.0 12 11.0 2.8 2.5



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MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

Droportion	As welded	Tun
Properties Rp0.2 (MPa) Rm (MPa) A4-A5 (%)	320 510 25	Typ 480 630 33
Charpy V at 20°C (J) Charpy V at -110°C (J) Charpy V at -196°C (J)		175 150 110