

Product Data Sheet

OK Tigrod 316L

W 'Tungsten inert gas arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
Mats Linde	Tero Tolonen	Mikael Mimer	EN006309	EN006098	2013-11-29	1 (2)

REASON FOR ISSUE

Min S changed from 0,0050 to 0,005

GENERAL

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

OK Tigrod 316L has a good general corrosion resistance, particularly against corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended were there is a risk of intergranular corrosion. The alloy is widely used in the chemical and food processing industries as well as in ship building and various types of architectual structures.

Shielding Gas: I1 (EN ISO 14175) Alloy Type: Austenitic (with approx. 10 % ferrite) 19% Cr -

12% Ni - 3% Mo - Low C

CLASSIFICATIONS Wire Electrode APPROVALS

EN ISO 14343-A W 19 12 3 L ABS **ER 316L** SFA/AWS A5.9 **ER316L** BV 316L Werkstoffnummer ~1.4430 CE EN 13479 **CWB AWS A5.9**

Wire/Strip (%)

DNV 316L (-60 °C) VdTÜV 04270

APPROVAL COMMENT

Valid for lotnumbers starting with PV

CHEMICAL COMPOSITION

All Weld

	Metal (%	Metal (%)		
	Nom	Min	Max	
C Si Mn P S Cr Ni Mo Cu N Others tot	0.01 0.4 1.8 0.02 0.01 19 12 2.6 0.1	0.30 1.3 0.005 18.0 11.0 2.5	0.030 0.65 2.0 0.030 0.020 20.0 13.0 3.0 0.5 0.080	



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MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

	As welded		
Properties	Min	Тур	
Rp0.2 (MPa) Rm (MPa) A5 (%)	320 510 25	470 600 32	
at 20°C (J) at -60°C (J) at -110°C (J) at -196°C (J)		175 130 120 75	