

OK Tigrod 308L

Bare corrosion resisting chromium-nickel rods. OK Tigrod 308L has a good general corrosion resistance. The alloy has a low carbon content which makes this alloy particularly recommended where there is a risk of intergranular corrosion. The alloy is widely used in the chemical and food processing industries as well as for pipes, tubes and boilers. For joining of stainless steels of 18% Cr - 8% Ni-type with low carbon content and Nb-stabilized steels of the same type if the service temperature will not exceed 350°C. Can also be used for welding of Cr-steels except in sulphur rich environments.

Specifications

Classifications	EN ISO 14343-A : W 19 9 L SFA/AWS A5.9 : ER308L Werkstoffnummer : ~1.4316
Approvals	CE : EN 13479 CWB : ER308L DNV-GL : VL 308 L NAKS/HAKC : 1.6-2.4 mm UKCA : EN 13479 VdTÜV : 04269

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type	Austenitic (with approx. 8 % ferrite) 19% Cr - 9% Ni - Low C
Shielding Gas	I1 (EN ISO 14175)

Tensile Properties

Testing Condition	Yield Strength	Tensile Strength	Elongation
As Welded	440 MPa (64 ksi)	580 MPa (84 ksi)	36 %

Charpy Testing

Testing Condition	Testing Temp	Impact Value
As Welded	20 °C (68 °F)	170 J (126 ft-lb)
As Welded	-80 °C (-112 °F)	135 J (100 ft-lb)
As Welded	-196 °C (-321 °F)	80 J (59 ft-lb)

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	Cu	N	FN WRC-92
0.02	1.9	0.4	9.8	19.8	0.20	0.15	0.05	9

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu
0.01	1.8	0.4	0.015	0.020	10	20	0.1	0.1