OK Tigrod 308L

OK Tigrod 308L has a good general corrosion resistance. The alloy has a low carbon content which makes this alloy 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 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 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)

Typical Tensile Properties			
Conditional Statement	**Yield Strength**	**Tensile Strength**	**Elongation**
As welded	480 MPa (70 ksi)	610 MPa (88.5 ksi)	36 %

Typical Charpy V-Notch Properties	
Testing Temperature	**Impact Value**
20 °C (68 °F)	170 J (125 ft-lb)
-80 °C (-112 °F)	135 J (99.5 ft-lb)
-196 °C (-321 °F)	80 J (59 ft-lb)

Typical Weld Metal Analysis %									
C	**Mn**	**Si**	**S**	**P**	**Ni**	**Cr**	**Mo**	**Cu**	**N**
0.01	1.8	0.4	0.015	0.020	10	20	0.1	0.1	0.07

Typical Weld Metal Analysis %	
Co	**FN WRC-92**
0.06	10

Typical Wire Composition %									
C	**Mn**	**Si**	**S**	**P**	**Ni**	**Cr**	**Mo**	**Cu**	**N**
0.02	1.9	0.4	0.012	0.016	9.8	19.8	0.20	0.15	0.05

Typical Wire Composition %	
Co	**FN WRC-92**
0.06	9