

OK Tigrod 317L

Bare corrosion resisting chromium-nickel-molybdenum welding rods for welding of austenitic stainless alloys of 19% Cr 9% Ni 3% Mo types. OK Tigrod 317L has a good resistance to general corrosion and pitting due to its high content of molybdenum. The alloy has a low carbon content which makes this alloy particularly recommended where there is a risk of intergranular corrosion. The alloy is used in severe corrosion conditions such as in the petrochemical, pulp and paper industries.

Specifications

Classifications	EN ISO 14343-A : W18 15 3 L SFA/AWS A5.9 : ER317L
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Alloy Type	Austenitic (with approx. 8 % ferrite) 19% Cr - 12% Ni - 3% Mo - Low C
Shielding Gas	I1 (EN ISO 14175)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As Welded	390 MPa (57 ksi)	600 MPa (87 ksi)	45 %

Typical Charpy V-Notch Properties

Testing Temperature	Impact Value
20 °C (68 °F)	135 J (99.5 ft-lb)
-196 °C (-321 °F)	55 J (40.5 ft-lb)

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	N	FN WRC-92
0.01	1.4	0.4	13.6	18.9	3.6	0.05	7