

OK Tigrod 312

Bare, corrosion-resistant, chromium-nickel welding rods for welding materials of the 29% Cr, 9% Ni types. OK Tigrod 312 has good oxidation resistance at high temperatures due to its high content of Cr. The alloy is widely used for joining dissimilar steels, especially if one of the components is fully austenitic, and for steels that are difficult to weld, i.e. machine components, tools and austenitic-manganese steels.

Classifications Wire Electrode:	SFA/AWS A5.9:ER312, EN ISO 14343-A:W 29 9
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Alloy Type:	Ferritic-austenitic (29 % Cr - 9 % Ni)
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Typical Tensile Properties			
Condition	Yield Strength	Tensile Strength	Elongation
As welded	610 MPa	770 MPa	20 %

Typical Charpy V-Notch Properties		
Condition	Testing Temperature	Impact Value
As welded	20 °C	50 J

Typical Wire Composition %						
C	Mn	Si	Ni	Cr	Mo	Cu
0.10	1.6	0.4	8.8	30.7	0.20	0.14