

OK TIGROD 16.11

OK TIGROD 16.11 is a corrosion-resistant, chromium-nickel-niobium alloyed solid rod for welding stabilized austenitic chromium-nickel alloys of 18Cr-8Ni type. OK TIGROD 16.11 has good general corrosion resistance. The alloy is stabilized with niobium to improve resistance to the intergranular corrosion of the weld metal. Due to the niobium content, this alloy is recommended for use at higher temperatures.

Specifications

Classifications	SFA/AWS A5.9 : ER347
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Alloy Type	Austenitic Cr-Ni -Nb
Shielding Gas	I1 (EN ISO 14175)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As Welded	430 MPa	620 MPa	35 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As Welded	20 °C	100 J

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Nb
0.04	1.50	0.40	9.50	19.50	0.50