

OK Tigrod 13.38

OK Tigrod 13.38 is a non-copper coated, low alloyed, 9CrMoVN rod for the GTAW of high-temperature steels and steels for hot hydrogen service, especially in oil refineries. It should preferably be used for 9% Cr steels, such as P91/T91 steels. The alloy is modified in terms of the limits for impurity elements and is extremely "clean". This produces improved strength levels both at room temperature and at higher temperatures. AWS has changed the classification for this product. The previous classification was A5.9 ER505.

Specifications

Classifications	EN ISO 21952-A : W CrMo91 EN ISO 21952-B : W 62 I1 9C1MV SFA/AWS A5.28 : ER90S-B91
Approvals	VdTÜV : 07686

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

Alloy Type	Alloyed steel (9 % Cr - 1 % Mo - V - N) "9CrMoVN"
Shielding Gas	I1 (EN ISO 14175)

Typical Tensile Properties

Condition	Conditional Statement	Yield Strength	Tensile Strength	Elongation
Ar (I1) EN				
Stress Relieved 2 hour(s) 760 °C	Stress relieved	500 MPa	560 MPa	16 %
Stress Relieved 4 hour(s) 735 °C	Stress relieved	670 MPa	760 MPa	20 %
Stress Relieved 2 hour(s) 760 °C	Stress relieved	690 MPa	785 MPa	20 %
Stress Relieved 2 hour(s) 760 °C	Stress relieved	420 MPa	450 MPa	22 %
Stress Relieved 2 hour(s) 760 °C	Stress relieved	510 MPa	580 MPa	14 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
Ar (I1) EN		
Stress Relieved	-60 °C	30 J
Stress Relieved	-20 °C	150 J
Stress Relieved	0 °C	180 J
Stress Relieved	-20 °C	130 J
Stress Relieved	-60 °C	70 J
Stress Relieved	0 °C	190 J
Stress Relieved	-40 °C	90 J
Stress Relieved	-40 °C	60 J

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	V	N	Nb
0.1	0.5	0.3	0.5	8.7	0.9	0.2	0.05	0.06