

OK Tigrod 13.09

OK Tigrod 13.09 is a 0.5Mo-alloyed, copper-coated rod for the GTAW of creep-resistant steels of the same type, such as pipes in pressure vessels and boilers with a working temperature of up to about 500°C.

Classifications Weld Metal:	EN ISO 636-A:W 46 2 W2Mo
Classifications Wire Electrode:	EN ISO 636-A:W2Mo, EN ISO 21952-A:W MoSi, EN ISO 21952-B:W 52 1M3, SFA/AWS A5.28:ER70S-A1 (ER80S-G)
Approvals:	CE EN 13479, DNV III YMS, DB 42.039.08, NAKS/HAKC 2.0MM-3.2MM, VdTÜV 04950

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

Alloy Type:	Low alloyed steel (0.5 % Mo)
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Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
AWS Ar (I1)			
As welded	520 MPa	620 MPa	27 %
PWHT 620°C 1h	510 MPa	610 MPa	28 %
EN Ar (I1)			
PWHT 620°C 1h	450 MPa	550 MPa	31 %
As welded	490 MPa	600 MPa	30 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
AWS Ar (I1)		
As welded	-29 °C	150 J
As welded	-46 °C	130 J
PWHT 620°C 1h	-20 °C	220 J
EN Ar (I1)		
As welded	20 °C	180 J
As welded	-20 °C	160 J
As welded	-40 °C	90 J
As welded	-60 °C	25 J
PWHT 620°C 1h	20 °C	190 J
PWHT 620°C 1h	-20 °C	170 J

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo
0.094	1.09	0.61	0.05	0.05	0.45