

OK AristoRod 13.08

The non copper coated OK AristoRod 13.08 is a ER80S-D2 classified, manganese-molybdenum (1,6% Mn, 0,4% Mo), solid wire for GMAW of creep resistant steels of the same type, such as pipes in pressure vessels and boilers with a working temperature of up to 500 C. The AristoRod wires are suitable for operating at high currents with maintained disturbance free wire feeding giving a stable arc with a low amount of spatter. OK AristoRod 13.08 delivered in the unique Esab Octagonal Marathon Pac is excellent in mechanised welding applications.

Specifications

Classifications	EN ISO 14341-A : G 46 0 C1 4Mo EN ISO 14341-A : G 50 4 M21 4Mo EN ISO 14341-A : G 4Mo SFA/AWS A5.28 : ER80S-D2 CAN/CSA-ISO 14341 : B-G 55A 3 C1 S4M31
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Alloy Type	Low alloyed (1.6 % Mn, 0.4 % Mo)
Shielding Gas	M21, C1 (EN ISO 14175)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
EN 80Ar/20CO₂ (M21)			
As Welded	590 MPa	685 MPa	24 %
AWS CO₂ (C1)			
As Welded	540 MPa	645 MPa	25 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
EN 80Ar/20CO₂ (M21)		
As Welded	-20 °C	100 J
As Welded	-40 °C	80 J
As Welded	20 °C	140 J
AWS CO₂ (C1)		
As Welded	-20 °C	36 J
As Welded	20 °C	90 J
As Welded	-40 °C	38 J

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo
0.098	1.78	0.6	0.05	0.04	0.47

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Mo	Cu
0.07	1.6	0.5	0.01	0.01	0.05	0.4	0.15

Deposition Data

Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate
0.8 mm	40-170 A	16-22 V	2.0-10.8 m/min	0.4-2.6 kg/h
1.0 mm	90-300 A	18-28 V	2.7-14.7 m/min	1.0-5.4 kg/h
1.2 mm	120-350 A	20-33 V	2.7-12.4 m/min	1.5-6.6 kg/h
1.6 mm	225-480 A	26-38 V	3.1-12.0 m/min	3.3-11.6 kg/h