



OK Aristorod 12.50

The non copper coated OK AristoRod 12.50 is a manganese-silicon alloyed solid wire for GMAW of unalloyed steels, such as general structural, pressure vessel, ship building and for fine-grained carbon-manganese steels for the same purpose with a minimum yield strength of max 420 MPa. The electrode can be welded with either a gas mixture or with pure CO₂ as the shielding gas. 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 12.50 delivered in the unique Esab Octagonal Marathon Pac is excellent in mechanised welding applications.

Metallo saldato - Classificazioni	EN ISO 14341 -A : G 38 3 C1 3Si1 EN ISO 14341 -A : G 42 4 M20 3Si1 EN ISO 14341-A : G 42 4 M21 3Si1
Elettrodo filo - Classificazioni	SFA/AWS A5.18 : ER70S-6 EN ISO 14341-A : G 3Si1 CSA W48 : B-G 49A 3 C1 S6 JIS Z 3312 : YGW 12 (C1)
Approvazioni	ABS 3Y SA BV SA3YM CE EN 13479 DB 42.039.29 DNV-GL III YMS LR 3YS H15 NAKS/HAKC 1.0-1.6 mm PRS 3YS (C1) PRS 3YS (M21) RS 3YMS VdTUV 10052 CWB B-G 49A 3 C1 S6 JIS YGW12 (C1) NAKS/HAKC 1.2-1.6 mm RINA 3Y S RINA 3Y S RINA 3Y S RINA 3Y S

Le approvazioni si basano sulla localizzazione della fabbrica. Contatta ESAB per maggiori informazioni.

Tipo di lega	Carbon-manganese steel (Mn/Si-alloyed)
Gas di protezione	M20, M21, C1 (EN ISO 14175)

Proprietà tensili tipiche

Stato	Resistenza allo snervamento	Resistenza alla trazione	Allungamento
AWS CO₂ (C1)			
Come saldato	430 MPa	530 MPa	30 %
EN 80Ar/20CO₂ (M21)			
Come saldato	470 MPa	560 MPa	26 %
Stress Relieved 15hr 620°C	370 MPa	495 MPa	28 %
EN CO₂ (C1)			
Come saldato	440 MPa	540 MPa	25 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
EN 80Ar/20CO₂ (M21)		
Come saldato	20 °C	130 J
Come saldato	-20 °C	120 J
Come saldato	-30 °C	100 J
Come saldato	-40 °C	90 J
Come saldato	-50 °C	70 J
Stress Relieved 15hr 620°C	20 °C	120 J
Stress Relieved 15hr 620°C	-20 °C	90 J
EN CO₂ (C1)		
Come saldato	20 °C	110 J
Come saldato	-30 °C	75 J
AWS CO₂ (C1)		
Come saldato	-30 °C	75 J

analisi tipica del deposito

C	Mn	Si	S	P	Cu	Ti+Zr
0.10	1.11	0.72	0.012	0.013	0.07	<0,01

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Typical Wire Composition %

C	Mn	Si
0.08	1.46	0.85

Dati deposito

Diametro	Amp	Volt	Velocità di trascinamento del filo	Tasso di deposito
0.8 mm	60-200 A	18-24 V	3.2-10.0 m/min	0.8-2.3 kg/h
0.9 mm	70-250 A	18-26 V	3.0-12.0 m/min	0.9-3.5 kg/h
1.0 mm	80-300 A	18-32 V	2.7-15.0 m/min	1.0-5.5 kg/h
1.14 mm	100-350 A	18-34 V	2.6-15.0 m/min	1.2-7.0 kg/h
1.2 mm	120-380 A	18-35 V	2.5-15.0 m/min	1.3-8.0 kg/h
1.32 mm	130-400 A	19-35 V	2.4-15.0 m/min	1.5-8.5 kg/h
1.4 mm	150-420 A	22-36 V	2.3-12.0 m/min	1.6-8.7 kg/h
1.6 mm	225-550 A	28-38 V	2.3-10.0 m/min	2.1-9.4 kg/h
2.0 mm	300-650 A	32-44 V	3.0-7.0 m/min	4.4-10.2 kg/h