

OK AristoRod 13.12

OK AristoRod 13.12 is a 1.1Cr-0.5Mo-alloyed, bare, solid wire for the GMAW of creep-resistant steels of the same composition, like those used for pipes in pressure vessels and boilers with a service temperature of up to 450°C. OK AristoRod 13.12 is treated with ESAB's unique Advanced Surface Characteristics (ASC) technology, taking MAG welding operations to new levels of performance and all-round efficiency, especially in robotic and mechanised welding. Characteristic features include excellent start properties; trouble-free feeding at high wire speeds and lengthy feed distances; a very stable arc at high welding currents; extremely low levels of spatter; low fume emission; reduced contact tip wear and improved protection against corrosion of the wire.

Classifications Wire Electrode:	SFA/AWS A5.28:ER80S-G, EN ISO 21952-A:G CrMo1Si, EN ISO 21952-B:G 55M 1CM3, GOST 2246:08X CM A
Approvals:	NAKS/HAKC 1.2MM, VdTÜV 10089

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

Alloy Type:	ow Alloyed (1 % Cr, 0.5 % Mo)
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Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
EN 80Ar/20CO2 (M21)					
Q.T. 940+730°C 15h	320 MPa	460 MPa	35 %		
As welded	670 MPa	785 MPa	18 %		
Stress relieved 0.5 hr 700 °C	450 MPa	580 MPa	24 %		
EN 80Ar/20CO2 (M21) Tested at 450°C					
Q.T.+ 940+730°C 15h	210 MPa	410 MPa	25 %		
As welded+	605 MPa	760 MPa	15 %		
Stress relieved 0.5 hr 700 °C	390 MPa	500 MPa	17 %		

Typical Charpy V-Notch Properties				
Condition	Testing Temperature	Impact Value		
EN 80Ar/20CO2 (M21)				
As welded	20 °C	40 J		
As welded	0 °C	30 J		
As welded	-20 °C	25 J		
PWHT 700°C 0.5h	-40 °C	25 J		
Q.T. 940+730°C 15h	20 °C	115 J		
Q.T. 940+730°C 15h	0 °C	60 J		
Q.T. 940+730°C 15h	-20 °C	30 J		
Stress relieved 0.5 hr 700 °C	20 °C	80 J		
Stress relieved 0.5 hr 700 °C	0 °C	40 J		
Stress relieved 0.5 hr 700 °C	-20 °C	30 J		

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