

## **OK Autrod 12.58**

OK Autrod 12.58 is a copper-coated, Mn-Si-alloyed G2Si/ER70S-3 solid wire for the GMAW of non-alloyed steels, as used in general construction, pressure vessel fabrication and shipbuilding. The wire has a carefully controlled wire chemistry and a unique surface technology providing superior weld-metal quality at high wire feed speeds and at high welding currents. The wire can be used with both Ar/CO2 mixed gas and pure CO2 shielding gas.

Classifications Weld Metal:	EN ISO 14341-A:G 35 2 C1 2Si, EN ISO 14341-A:G 38 3 M21 2Si	
Classifications Wire Electrode:	EN ISO 14341-A:G 2Si, SFA/AWS A5.18:ER70S-3	
Approvals:	CE EN 13479, ABS 3YSA (M21), ABS 3YSA (C1), BV SA3YM (C1&M21), LR 3YS H15 (C1), LR 3YS H15 (M21), DB 42.039.17, GL 3YS (C1&M21), LR 3YM H15 (C1), LR 3YM H15 (M21), VdTÜV 07653	

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

Alloy Type:	Carbon-manganese steel (Mn/Si-alloyed)
, o , . , p o .	Carbon manganess stock (min or and year)

Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
EN 80Ar/20CO2 (M21)					
As welded	430 MPa	515 MPa	26 %		
EN CO2 (C1)					
As welded	410 MPa	500 MPa	30 %		

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
EN 80Ar/20CO2 (M21)					
As welded	20 °C	140 J			
As welded	-20 °C	130 J			
As welded	-30 °C	90 J			
EN CO2 (C1)					
As welded	20 °C	125 J			
As welded	-20 °C	90 J			

Typical Wire Composition %				
С	Mn	Si		
0.074	1.05	0.55		