

## Pipeweld 70S-6

A copper coated solid wire especially designed for downhill circumferential GMAW on pipes in materials such as APi 5L (grade 52 up to grade 70). The main applications are pipelines, compressor stations and associated works in the oil and gas distribution industries with special requirements. To meet these requirements the electrode is a "clean" type of EN ISO 14341-A G4Si1 as regards chemical analysis.

Specifications			
Classifications	EN ISO 636-A: W 46 3 4Si1		
	EN ISO 14341-A: G 42 2 C1 4Si1		
	EN ISO 14341-A: G 46 3 M21 4Si1		
	EN ISO 636-A: W 4Si1		
	EN ISO 14341-A: G4Si1		
	SFA/AWS A5.18 : ER70S-6		
Approvals	VdTÜV : 12430		

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

Tensile_Properties				
Testing Condition	Yield Strength	Tensile Strength	Elongation	
AWS C1				
As Welded	470 MPa	575 MPa	29 %	
EN C1				
As Welded	495 MPa	575 MPa	25 %	
EN M21				
As Welded	545 MPa	600 MPa	26 %	

Charpy Testing			
Testing Condition	Testing Temp	Impact Value	
AWS C1			
As Welded	-20 °C	100 J	
As Welded	-29 °C	80 J	
EN C1			
As Welded	-20 °C	80 J	
As Welded	20 °C	120 J	
EN M21			
As Welded	-20 °C	100 J	
As Welded	-30 °C	80 J	
As Welded	20 °C	140 J	

Typical Wire Composition %			
С	Mn	Si	
0.09	1.65	0.97	

Typical Weld Metal Analysis %				
С	Mn	Si	s	Р
0.07	1.25	0.82	0.009	0.009

Welding_Parameters	
Wire Diameter	
0.9 mm	
1.0 mm	



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Wire Diameter

1.2 mm