

ESAB MW1

ESAB MW1 is a copper coated, Mn-Si alloyed solid wire for GMAW of non alloyed steels, used in general construction, automotives, ship building and pressure vessel fabrication. 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.

Specifications	
Classifications	EN ISO 14341-A : G 42 3 C1 3Si1 EN ISO 14341-A : G 42 3 M21 3Si1 EN ISO 14341-A : G 3Si1 SFA/AWS A5.18 : ER70S-6 IS 6419 : S4-C504
Approvals	BIS : S4-C504 CE : EN 13479 DNV : III MS/III T IBR : ER70S6 IRS : 2M, 1T LR : 1T, 3S H15 RDSO : Class I

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

Alloy Type	Mn-Si alloyed
Shielding Gas	M21, C1 (EN ISO 14175)

Typical Tensile Properties				
Condition	Conditional Statement	Yield Strength	Tensile Strength	Elongation
M21 Shielding gas				
As Welded	As welded	450 MPa	560 MPa	23 %
C1 Shielding gas				
As Welded	As welded	430 MPa	530 MPa	26 %

Typical Charpy V-Notch Properties		
Condition	Testing Temperature	Impact Value
M21 Shielding gas		
As Welded	-30 °C	80 J
C1 Shielding gas		
As Welded	-30 °C	70 J

Typical Wire Composition %									
C	Mn	Si	S	P	Ni	Cr	Mo	V	Al
0.07	1.50	0.85	0.010	0.015	0.05	0.05	0.01	0.01	0.01

Typical Wire Composition %	
Cu	Ti+Zr
0.10	0.05

Deposition Data		
Diameter	Current	Voltage
0.8 mm	60-200 A	17-24 V
1.2 mm	120-330 A	18-30 V
1.6 mm	225-440 A	28-36 V
2.0 mm	300-550 A	32-41 V