

ESAB MW2

ESAB MW2 is a low alloyed (0.5% Mo) solid wire for Gas Metal Arc Welding of high strength steels. The wire can be welded with mixture of Ar-CO₂ or with CO₂ as the shielding gas. The wire is suitable for welding of high strength structural materials such as automobile components.

Specifications

Classifications	SFA/AWS A5.28 : ER80S-G
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Alloy Type	Low Alloy (0.5% Mo)
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Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
M21 Shielding gas			
As Welded	570 MPa	690 MPa	22 %
C1 Shielding gas			
As Welded	560 MPa	650 MPa	25 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
M21 Shielding gas		
As Welded	-30 °C	65 J
C1 Shielding gas		
As Welded	-30 °C	45 J

Typical Wire Composition %

C	Mn	Si	Mo
0.10	1.90	0.55	0.43

Deposition Data

Diameter	Current	Voltage
1.2 mm	120-280 A	20-28 V