

Inweld

Alloy ER70S-6

AWS A5.18

UNS Number: K11140



Description and Applications:

ER70S-6 contains higher levels of manganese and silicon than the other standard grades of MIG wire. This wire features excellent tolerance of rust and scale, produces the highest deposit strength of all the carbon steel MIG wires.

ER70S-6 is used for butt and fillet welding of sheet and plate of a variety of thickness. Applications include general carbon steel fabrication.

Chemical Composition of ER70S-6

C	Mn	Si	P	S	Ni	Cr	Mo	V	Cu	Ti	Zr	Al
0.06-0.15	1.40-1.85	0.80-1.15	0.025	0.035	0.15	0.15	0.15	0.03	0.50	-	-	-

Single values are maximum unless otherwise specified.

(As Welded)

Shielding Gas:	CO ₂
Tensile Strength (min)	psi: 70,000 MPa: 480
Yield Strength (min)	psi: 58,000 MPa: 400
Elongation % (min)	22

