



70S-6 Mild Steel Welding Wire [AWS A5.1, Class ER70S-6]

AWS A5.1, Class 70S-6 wire formulated with higher levels of manganese and silicon than other standard grades of MIG wire. This provides better tolerance to rust, scale, and other plate contaminants. It is particularly well-suited for spray transfer and high-speed applications where good wetting and appearance are important. This is a premium mild steel solid wire.

ER70S-6 SIZE AND PACKAGING OPTIONS

Package/size	.023	.030	.035	.045	.052	1/16	3/32	1/8	5/32
2 lb Spool	✓	✓	✓						
11 lb Spool	✓	✓	✓	✓					
33 lb Spool	✓	✓	✓	✓					
44 lb Spool			✓	✓	✓				
550/1000 lb Drum			✓	✓	✓				
36" Cut Length			✓	✓		✓	✓	✓	✓

ER70S-6

Mild and Low Alloy Steel Bare Wire

Application: Frame fabrication, automotive structures, farm implements, construction equipment, pressure vessels, pipe fabrication, railcar construction and other general fabrication and repair. Used in high-speed robotic and automatic welding applications and semi-automatic applications.

Specifications: Conforms to AWS A5.1

Classification: ER70S-6

CHEMISTRY

Elements	C	Cr (max)	Ni (max)	Mn	Si	P (max)	S (max)	Cu (max)	Mo (max)	V (max)	Fe	Other (max)
Typical %	.06-15	0.15	0.15	1.4-1.85	.8-1.15	0.025	0.035	0.5	0.15	0.03	bal.	0.50

MECHANICAL PROPERTIES

	Tensile Strength	Yield Strength	Elongation in 2"
Typical %	87 ksi	74 ksi	28 %



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