



Techniweld 70S-6 Mild Steel Welding Wire

AWS A5.1, Class ER70S-6

70S-6 is a premium mild steel solid wire formulated with higher levels of manganese and silicon than other standard grades of MIG wire. This gives it the best 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.



TECHNIWELD ER70S-6 SIZE AND PACKAGING OPTIONS

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

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

Weld Metal - Chemistry

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

Weld Metal - Mechanical Properties

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

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