

TIG F57

Old reference: TIG 70S6

Classification

AWS A5.18 : ER70S-6 ISO 636-A : W 46 2 3Si1

Description & Applications

Copper coated TIG rod to weld low alloyed standard construction / boiler steels like S235-S355, P235-P355 and S255N-S420N. Especially used for root passes.

Main applications: Piping systems, tanks, boilers, general metal constructions subjected to specific quality controls.

Base material:

Construction steels for general use, Tube steels, Ship steels:

EN	Ship steels	ASTM
S185 – S355	Quality A and B	A285 grade C
P235 – P355		A442 grade 55, 60
L210 - L360		A414 grade C, D, E, F
		A515 grade 55, 60, 65

Typical Chemical Composition (%)

	С	Si	Mn	Cr	Ni	Мо	Cu	ΑI	Ti+Zr	V	Р	S
Min	0.06	0.80	1.40									
Max	0.14	1.00	1.60	0.15	0.15	0.15	0.35	0.02	0.15	0.03	0.025	0.025
Type	0.07	0.85	1.45	0.04	0.04	0.01	0.15	0.001	0.004	0.001	0.02	0.02

All Weld Metal Mechanical Properties

	R _e (MPa)	R _m (MPa)	A ₅ (%)	KV ((J)
Min	460	530	22	-30°C	>27
Max		680			
Туре	480	560	28	-20°C -30°C	90 70

Welding Current & Instructions

Welding mode	Shielding Gas			
TIG = -	ISO 14175: I1 (Ar) 6-12 l/min Back shielding : I1 (Ar) / N1 (Nitrogen) 3-6 l/min			

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