GTAW Solid Wire for High Tensile Strength Steel

TG-53

Classification

AWS A5.18/A5.18M ER70S-3/ER48S-3

JIS Z3312 EN 636-A

W422 W2Si ER50-3

YGT50

Shielding Gas: Ar GB T 8110

Applications and Features

- (1) TG-53 is suitable for welding mild steel and 490N/mm² grade steel.
- (2) It is specially designed for GTAW with Argon in root pass of pipe welding.
- (3) Ideal for welding vehicles and sheet metal.

Welding Instruction

Please refer to Appendix C.

Typical Chemical Composition of Weld Metal (wt. %)

С	Si	Mn	Р	S
0.09	0.48	1.20	0.013	0.012

Typical Mechanical Properties of Weld Metal

	Tensile Strength	Yield Strength	Elongation	Charp	y V-Notch	
	N/mm ² (kgf/mm ²)	N/mm ² (kgf/mm ²)	%	°C	J (kgf -m)	
	570(58.1)	480(48.9)	33	0	195(19.9)	
		400(40.9)	33	-20	176(18.0)	

Size and Suggested Operating Range (DC+)

Diameter (mm)	1.2	1.4	1.6	2.0	2.4	2.6	3.2	4.0	4.8	5.0
Length (mm)	1000				1000					