GTAW Solid V	Vire for High Tensi	le Str	ength Ste	el		
	Classification					
		AWS	A5.18	ER70S-G		
TG-50		JIS	Z3312	W49 A 3		
		EN	636-A	W 42 3 W0		
Shielding Gas:	٩r	GB	T 8110	ER50-G		

Applications and Features

- (1) TG-50 is suitable for welding mild steel and 490N/mm² grade steel in butt joint/ H-fillet welding of high pressure pipes for ship-building, petro-chemistry and power plants.
- (2) Ideal for GTAW with Argon in the root pass of butt joints.

Welding Instruction

Please refer to Appendix C.

Typical Chemical Composition of Weld Metal (wt. %)

С	Si	Mn	Р	S	
0.050	0.83	1.26	0.015	0.012	

Typical Mechanical Properties of Weld Metal

Tensile Strength	Yield Strength	Elongation	Charpy V-Notch		
N/mm ² (kgf/mm ²)	N/mm ² (kgf/mm ²)	%	°C	J (kgf -m)	
560(57.1)	470(48.0)	31	0	190(19.4)	
			-30	170(17.3)	

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									