

## GTAW Solid Wire for High Tensile Strength Steel

# TG-80

### Classification

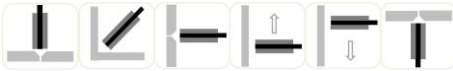
AWS A 5.18/A5.18M	ER80S-G/ ER55S-G
JIS Z3316	W55A23M1T
EN ISO 636-A	W 46 2 W0
GB T8110	ER55-G

Shielding Gas:100% Ar

### Applications and Features

- ( 1 ) TG-80 is suitable for welding 590N/mm<sup>2</sup> grade steel.
- ( 2 ) TG-80 is an all-position welding rod for TIG welding. Especially suitable for root pass of pipe welding.
- ( 3 ) Ideal for welding pipeline of high-strength steels such as Mn-Mo and Mn-Mo-Ni grades.

### Welding Position



### Welding Instruction

Please refer to Appendix C.

### Typical Chemical Composition of Wire (wt%)

C	Si	Mn	P	S	Mo
0.08	0.68	1.55	0.012	0.008	0.40

### Typical Mechanical Properties of Weld Metal

Tensile Strength	Yield Strength	Elongation	Charpy V-Notch	
N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	°C	J
610	590	28	0	193
			-20	174

### Size and Polarity (DC-)

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