

GTAW Solid Wire for High Tensile Strength Steel

TG-52

Classification

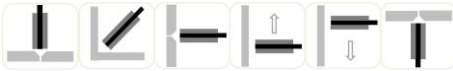
AWS A 5.18/A5.18M	ER70S-2/ER49S-2
JIS Z3316	W49A3U2
EN ISO 636-A	W 42 3 W2Ti
GB T8110	ER50-2

Shielding Gas:100% Ar

Applications and Features

- (1) TG-52 is suitable for welding 490N/mm² grade steel.
- (2) TG-52 is an all-position welding rod for TIG welding. Especially suitable for root pass of pipe welding.
- (3) Addition of Al, Ti and Zr provides excellent mechanical properties.

Welding Position



Welding Instruction

Please refer to Appendix C.

Typical Chemical Composition of Wire (wt%)

C	Si	Mn	P	S	Al	Ti	Zr
0.06	0.59	1.01	0.011	0.002	0.12	0.11	0.07

Typical Mechanical Properties of Weld Metal

Tensile Strength	Yield Strength	Elongation	Charpy V-Notch	
N/mm ²	N/mm ²	%	°C	J
570	480	33	0	205
			-30	174

Size and Polarity (DC-)

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