

**Classifications**

EN 636-A:2008	: W 46 3 W2Si1	JIS Z 3316	: W 49 A 3U 3
EN 636-B:2008	: W 49A 3 U W3	KS D 7140	: YGT50
AWS A5.18-05	: ER70S-3		

**Description**

- For mild steel and 490MPa tensile strength steel welding of structural steels, machineries and vehicles.
- Excellent mechanical and toughness properties in low temperature conditions.
- It is generally used in root pass and to support the welding when back pass is impossible.

**Typical chemical composition of rod (%)**

C	Si	Mn	P	S
0.07	0.65	1.18	0.010	0.009

**Typical mechanical properties of all-weld-metal**

	Y.S (MPa)	T.S (MPa)	El. (%)	IV (J) -30°C	Remarks
AWS A5.18	min. 400	min. 480	min. 22	≥ 27	Ar
EN 636-A	min. 460	530~680	min. 20	≥ 47	Ar
Example	480	550	32	120	Ar

**Operating data**

Dia.(mm)	2.4~3.2
Current (Amp.)	200 ~ 300

**Polarity and Shielding gas**

- DCEN (DC-)
- Ar : (15~25ℓ/min)