TWE-811B2

AWS A5.29 E81T1-B2C

Characteristics and Applications:

TWE-811B2 is a gas-shielded and all-position flux-corded wire intended for 1~1.25%Cr-0.5%Mo low alloy steel welding. It is used with 100%CO₂ shielding gas and offers good operator appeal. TWE-811B2 is ideal for welding Cr-Mo steel pipe and Cr-Mo steel, which need high creep resistance.

Notes on usage:

- 1. Pre-heat at 150-300°C, and PWHT at 690°C x1hr.
- 2. Keep the product dry, while it is stored or delivered.
- 3. Use 99.8% or higher purity of CO₂ Gas.
- 4. Use DC(+) polarity.

Typical chemical composition of weld metal (wt%):

	С	Mn	Si	Р	S	Cr	Мо
AWS	0.05-0.12	≦ 1.25	≦ 0.80	≦ 0.030	≦ 0.030	1.00-1.50	0.40-0.65
Typical value	0.06	0.60	0.28	0.014	0.008	1.12	0.55

Typical mechanical properties of weld metal:

	Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	PWHT
AWS	≥470(68)	550-690(80-100)	≥ 19	690±15°C
Typical value 560(81)		640(93)	23	690°C x1hr

Welding position:













Sizes and recommended operating range (DC<+>): **Stick out:15-25(mm), flow rate:20-25(I/min):**

Diameter(mm) Position	1.2	1.6	
F、HF	180A-300A/26V-36V	180A-350A/26V-38V	
VU · OH	150A-220A/24V-28V	160A-230A/24V-28V	

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