TWE-81W2

AWS A5.29 E81T1-W2C

Characteristics and Applications:

TWE-81W2 is a titania type flux-cored wire and suitable for butt or fillet MAG welding of 590N/mm² weather-proof grade steel and A588 \ A234 \ A242 \ A333 or COR-TEN 60 (used normally without painting) at low temperatures. It can be applicable for all-position welding and show smooth bead appearance and shape, spattering.

Notes on usage:

- 1. Must pre-heat ;inter-pass temperature should be controlled around 50°C ~150°C.
- 2. To keep the toughness, the plates should not be welded with excessive heat input.
- 3. Use DC(+) polarity and CO₂ gas.
- 4. Keep the product dry, while it is stored or delivered.

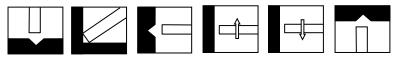
Typical chemical composition of weld metal (wt%):

	С	Mn	Si	Р	S	Cr	Ni	Cu
AWS	≦0.12	0.50-1.30	0.35-0.80	≦0.030	≦0.030	0.45-0.70	0.40-0.80	0.30-0.75
Typical value	0.03	0.85	0.42	0.015	0.007	0.53	0.60	0.40

Typical mechanical properties of weld metal:

	Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	Charpy V-Notch J (ft-lbf) -30°C (-20°F)
AWS	≧470(68)	550-690(80-100)	≧19	≧27(20)
Typical value	603(87)	646(94)	26	60(44)

Welding position:



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

Diameter (mm) Position	1.2	1.6	
F、HF、H	180A-300A / 26V-36V	200A-350A / 21V-34V	
VU · OH	150A-220A / 24V-28V	180A-230A / 20V-24V	
VD	220A-320A / 24V-32V	250A-350A / 25V-32V	

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