TFW-309L

AWS A5.22 E309LT1-1 EN ISO 17633-A-T 23 12 L P C1 1 JIS Z 3323 TS309L-F C 1

Characteristics and Applications:

TFW-309L is designed for 100% CO₂ gas shielding and all position welding. It is commonly used for welding similar alloys in wrought or cast forms, or used in dissimilar welding, such as low alloy steel, heat-resistant steel and clad steel.

Notes on usage:

- 1. Before welding, oil, rusty, and moisture should be cleaned off the base material that should have the proper protection from the wind in welding site.
- 2. Use 99.8% purity or higher CO₂ shielding gas.
- 3. Keep the product dry, while it is stored or delivered.

Typical chemical composition of weld metal (wt%):

	С	Mn	Si	Р	S	Cr	Ni
AWS	≦ 0.04	0.5-2.5	≦ 1.0	≦ 0.04	≦ 0.03	22.5-25.0	12.0-14.0
EN ISO	≦ 0.04	≦ 2.5	≦ 1.0	≦ 0.030	≦ 0.025	22.5-25.0	12.0-14.0
Typical value	0.026	1.40	0.55	0.021	0.008	24.07	12.78

Typical mechanical properties of weld metal:

	Tensile strength MPa(ksi)	Elongation %	Charpy V-Notch J (ft-lbf) -46°C (-51°F)
AWS	≥ 520 (75)	≧30	-
EN ISO	≥510 (74)	≧25	-
Typical value 546 (79)		36	42(31)

Welding position:











Sizes and recommended parameter range (DC<+>):

Stick out:15-20(mm),flow rate:20-25(I/min):

Diameter (mm) Position	1.2	1.6					
F, HF	130A-220A/24V-33V	200A-300A / 27V-35V					
Н	140A-180A/25V-29V	200A-300A / 27V-35V					
V-UP	130A-160A/24V-28V	160A-200A / 24V-27V					
ОН	150A-180A/25V-29V	-					

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