

# TFW-309L

AWS A5.22 E309LT1-1  
EN ISO 17633-A-T 23 12 L P C1 1  
JIS Z 3323 TS 309L-F C 1 1

## Characteristics and Applications:

TFW-309L is designed for 100% CO<sub>2</sub> 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 CO<sub>2</sub> shielding gas.
3. Keep the product dry, while it is stored or delivered.

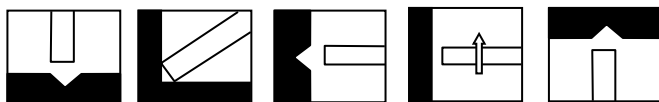
## Typical chemical composition of weld metal (wt%):

C	Mn	Si	P	S	Cr	Ni
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)
546 (79)	36	42(31)

## Welding position:



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

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

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

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