

TL-86B8

AWS A5.5 E8016-B8
EN ISO 3580-B-E6216-9C1M
JIS Z 3223 E5516-9CM

Characteristics and Applications:

TL-86B8 is a low hydrogen type electrode. The weld metal contains 9%Cr-1%Mo. High tensile strength, good toughness, and good heat resistance can be obtained. It is suitable for 9%Cr-1%Mo steel such as ASTM A387 Gr.9 for refineries, petrochemical and electric power plants, ASTM A199-T9, A335-P9 for pipes, A387-9 for drawing steel, A182-F9 for forging steel, etc..

Notes on usage:

1. Clean up the contaminations on the base metal and welding seam so as not to derogate the weld metal quality from particles.
2. Dry the electrodes at 250-350°C for 60 minutes before using.
3. Use back-step method to prevent arc starting from blowholes and hold for 3-5 seconds at every end-up.
4. Maintain short arc length. Moving range should be controlled within 3 times of the wire's dia when you are welding with weave method.
5. Do not exceed the range of recommended current. Over heat input might decrease the impact value.
6. Pre-heat the workpiece at 250~350°C and proceed PWHT according to relevant specifications.

Typical chemical composition of weld metal (wt%):

C	Mn	Si	P	S	Cr	Mo
0.07	0.78	0.50	0.018	0.01	9.1	1.0

Typical mechanical properties of weld metal:

Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	PWHT
600(87)	700(102)	23	740°C x 1hr

Welding position:



Sizes and recommended current range (AC or DC <+>):

Diameter (mm)		3.2	4.0		5.0
Length (mm)		350	350	450	450
Amps	F	90-120	100-150		160-210
	V&OH	90-110	110-140		-

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