# TL-98B3

AWS A5.5 E9018-B3 EN ISO 3580-B-E6218-2C1M JIS Z 3223 E6218-2C1M

## **Characteristics and Applications:**

TL-98B3 is an iron powder low hydrogen type electrode for low alloy heat resistance steel. The weld metal contains 2.25%Cr-1%Mo that makes the electrodes more suitable for the welding of piping steels (STPA24, A335-P22), boilers (STBA24 A199T22 A213T22 A200T22), heat exchanger pipes (A182-F22, A336-F22) which the service temperature is at 550 . Good creep rupture strength also can be obtained at high temperature.

#### 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 350-400 for 60 minutes before use.
- 3. Use back-step method to prevent arc starting from blowholes and hold for 3-5 seconds at every end-up.
- 4. Maintaining short arc length as possible is highly recommended. While welding with weave method, moving range should be controlled within 3 times of the wire's dia.
- 5. Do not exceed the range of recommended current. Over heat input might decrease the impact value.
- 6. Pre-heat the workpiece at 200~350 and PWHT at 680~730

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

С	Mn	Si	Р	S	Cr	Мо
0.07	0.7	0.45	0.020	0.01	2.25	1.00

## Typical mechanical properties of weld metal:

Yield strength		Tensile strength	Elongation	PWHT	
MPa(ksi)		MPa(ksi)	%		
580(8	34)	710(103)	23	690 x1hr	

## Welding position:



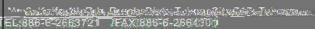


# Sizes and recommended current range (AC or DC + ):

	Diameter (mm)  Length (mm)		3.2	4.0	5.0
			350	350 🗒 450	450
Amps	Δ	F	90-130	140-190	190-240
	V&OH	80-110	130-160	-	

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