# **TLH-98B3**

AWS A5.5 E9018-B3 H4 EN ISO 3580-B-E6218-2C1M H5

#### **Characteristics and Applications:**

TLH-98B3 is an iron powder low hydrogen type electrode with low impurity 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 . The product provides good creep rupture strength 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 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.

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

С	Mn	Si	Р	S	Cr	Мо
0.073	0.53	0.17	0.020	0.01	2.20	1.00

### Typical mechanical properties of weld metal:

Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	Charpy V-Notch J (ft-lbf) -30°C (-20 )	PWHT
600(87)	700(102)	22	70(52)	690 x1hr

## Welding position:



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

Diameter (mm)		3.2	4.0		5.0
Length (mm)		350	<u>35</u> 0	450	450
	F	90-130	140-190		190-240
Amps	V&OH	80-110	<b>a</b> 130	-160	-

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