

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 .

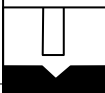
Typical chemical composition of weld metal (wt%):

C	Mn	Si	P	S	Cr	Mo
0.07	0.7	0.45	0.020	0.01	2.25	1.00

Typical mechanical properties of weld metal:

Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	PWHT
580(84)	710(103)	23	690 x1hr

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	90-130	140-190	190-240
	V&OH	80-110	130-160	-

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