TS-312SB

Characteristics and Applications:

The weld metal of TS-312SB is a stainless steel containing more ferrite content than TS-309/309L. Good crack resistance. It is excellent for the welding of dissimilar metals, cladding steel and steels with high harden ability. Due to higher ferrite, TS-312SB is low sensitive to cracking and especially suitable for welding dissimilar metals, hardening alloy steel and metals with poor weldability or easy to cause porosity. However, High temperature should be avoided for not to cause cracks resulted from embrittlement effect of second phase.

Notes on usage:

- 1. Clean up the contaminations on the base metal, groove and pass to pass with stainless steel brush.
- 2. Maintain short arc length. Moving range should be controlled within 2.5 times of the wire's dia when you are welding with weave method.
- 3. Dry the electrodes at 250~300 for 60 minutes before using. Take out consumables for half day consumption and keep in the environment at 100~150 during welding process.
- 4. Use lower current to prevent from crack and minimize base metal dilution.

Typical chemical composition of weld metal (wt%):

С	Mn	Si	Р	S	Cr	Ni
0.10	1.2	0.9	0.025	0.037	28.7	10.30

Typical mechanical properties of weld metal:

Tensile strength MPa(ksi)	Elongation %
790(115)	24

Welding position:











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

Diameter (mm)		2.6	3.2	4.0	4.8
Length	n (mm)	300	350	350	350
A 200 to 0	F	60-90	80-130	130-170	180-210
Amps	V&OH	50-70	70-110	100-130	-

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