SM-308L

DESCRIPTION

SM-308L is a rutile electrode designed for welding type 308L base metal with low or medium carbon content. The SS-308L contains low carbon to avert carbide precipitation during welding as well as weld service. Excellent for welding 18Cr-8Ni steels.

FEATURES

Smoother arc transfer, Easier slag removal, Less Spatter. Excellent usability in all positions welding including vertical down. Suitable for butt and fillet welding of thin plates/sheets. Smooth and bright weld seams, Smoother with a finer ripple bead surface. Stable arc on AC and DC.

APPLICATIONS

Typical applications include stainless steel piping in refineries, oil and gas industries, and chemical plants.

CHEMICAL COMPOSITION							
	%C	%Mn	%Si	%P	%S		
Requirements	0.04 max	0.5 - 2.5	1 max	0.04 max	0.03 max		
Typical Results	0.02	0.76	0.55	0.03	0.01		
	%Ni	%Cr	%Mo	%Cu	Nb (Cb) Plus Ta		
Requirements	9.0 - 11.0	18.0 - 21.0	0.75 max	0.75 max	-		
Typical Results	9.92	18.9	0.06	0.06	0.04		

MECHANICAL PROPERTIES

	Tensile Strength, Mpa	Yield Strength, Mpa	Elongation, %
Requirements	520 min	-	35 min
Typical Results	585		41

OPERATING PROCEDURES

	Current (Amps)					
Polarity	Ø2.0 mm	Ø2.6 mm	Ø3.2 mm	Ø4.0 mm	Ø5.0 mm	
AC	50 - 80	75 - 115	110 - 140	160 - 200	205 - 260	
DC ±	45 - 75	70 - 105	100 - 135	145 - 180	185 - 235	

WELDING POSITION



NOTE

1. Rebake the electrodes at 250 ~ 300°C for 1 hour and keep it at 100 ~ 150°C prior to use.

- 2. Use stainless steel wire brush for cleaning of slags.
- 3. Follow the recommended welding parameters to achieve good sound welds.

SPECIAL METAL KOREA CO., LTD.