

KT-310

Classification

AWS A5.9/A5.9M

ER310

Applications and Features

- (1) Weld metal is austenite structure with 25%Cr-20%Ni.
- (2) Superior corrosion resistance and strength at 1000°C due to high Ni and Cr content.
- (3) Ideal for welding AISI 310S steel and dissimilar metals (carbon steel, Cr-Mo steel and stainless steel).
- (4) Also suitable for low temperature and non-magnetic applications.

Typical Chemical Composition (wt%)

C	Si	Mn	P	S	Cr	Ni
0.08	0.41	1.98	0.011	0.010	26.50	20.90

Typical Mechanical Properties of Weld Metal (Shielding Gas : Ar)

Tensile Strength MPa	Yield Strength MPa	Elongation %
610	465	39

Sizes and Suggested Operating Range

Size mm	Current A	Gas Flow L/min	Shielding Gas
1.6	75-100	25	Ar
2.4	150-200	25	Ar

Diam.	5 kg Tube
1.6mm	KT31016
2.4mm	KT31024

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