

KS-316L

Classification:

Type of coating: Lime titania type

AWS A 5.4/A5.4M E316L-16
AS/NZS 4854 B ES316L-16

Applications and Features

- (1) Weld metal is low carbon 18%Cr-12%Ni-2%Mo.
- (2) Extra low carbon content prevents intergranular corrosion.
- (3) Good strength at high temperature and no post weld heat treatment required.
- (4) It is suitable for welding critical chemical vessels that require low temperature impact property, such as liquid natural gas tank.

Welding Position

All Position

Typical Chemical Composition of Weld Metal (wt%)

C	Si	Mn	P	S	Cr	Ni	Mo
0.035	0.50	1.20	0.016	0.010	19.52	13.23	2.52

Typical Mechanical Properties of Weld Metal

Tensile Strength MPa	Yield Strength MPa	Elongation %	5% Sulfuric Acid Corrosion Test (g/m ² hr)
560	400	41	≤6

Size and Suggested Operating Range (AC or DC+)

Diameter x Length (mm)	2.6x300	3.2x350	4.0x350
Amp	F/H-Fillet	50~85	80~120
	V-up/OH	45~85	70~110

Diam.	Pack / Carton	Part No.
2.5mm	2.5kg Tube x 12 = 30 kg	KS31625
3.2mm	2.5kg Tube x 12 = 30 kg	KS31632
4.0mm	2.5kg Tube x 12 = 30 kg	KS31640

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