

## GTAW Solid Wire for Stainless Steel

# KTS-316L

### Classification

AWS	A5.9/A5.9M	ER316L
JIS	Z3321	YS316L
EN	14343-A	W 19 12 3 L
YB	T5092	H03Cr19Ni12Mo2Si

Shielding Gas: 100% Ar

### Applications and Features

- ( 1 ) Weld metal is austenite structure with low carbon 18%Cr-12%Ni-2%Mo.
- ( 2 ) Superior corrosion resistance to acetic acid, phosphoric acid, acetate and phosphate due to additional Mo content.
- ( 3 ) Ideal for welding chemical vessels (AISI 316L) or 13% Cr or 18% Cr stainless steels without PWHT.

### Welding Position



### Welding Instruction

Please refer to Appendix C and F.

### Typical Chemical Composition of Weld Metal (wt%)

C	Si	Mn	P	S	Cr	Ni	Mo
0.02	0.42	1.91	0.012	0.009	18.65	12.63	2.53

### Typical Mechanical Properties of Weld Metal

Tensile Strength	Yield Strength	Elongation
N/mm <sup>2</sup>	N/mm <sup>2</sup>	%
550	380	39

### Size and Polarity (DC-)

Diameter (mm)	1.0	1.2	1.6	2.0	2.4	3.2
Length (mm)	1000					