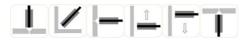
GTAW Wire for Nickel and Nickel-Based Alloy					
	Classification				
KTS-82	AWS	A5.14/A5.14M	ERNiCr-3		
N10-02	JIS	Z3334	S Ni 6082		
	EN	18274	S Ni 6082		
Shielding Gas: 100% Ar	GB	T15620	S Ni 6082		

Applications and Features

- The alloy system provides high strength and good corrosion resistance, resists oxidation, and delivers creep-rupture strength at elevated temperatures.
- (2) Ideal for welding materials of similar composition, such as alloys 600, 601 and 800.
- (3) Suitable for applications ranging from cryogenic to high temperatures, such as pipeline,

furnace equipment, petrochemical and power generation plant.

Welding Position



Welding Instruction

- (1) Clean surface of base metal before welding.
- (2) Please refer to Appendix C.

Typical Chemical Composition of Weld Metal (wt%)

С	Si	Mn	Cr	Fe	Ti	Nb
0.021	0.14	3.11	19.99	1.43	0.38	2.43

Typical Mechanical Properties of Weld Metal

Tensile Strength	Yield Strength	Elongation	Charpy V-Notch	
N/mm ²	N/mm ²	%	°C	J
688	428	42	-	-
<u>a</u> : 10		(20)		

Size and Suggested Operating Range (DC-)

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