GTAW Wire for Nickel and Nickel-Based Alloy									
	Classification								
VTC 64	AWS A5.14/A5.14M ERNiCrMo-3	ERNiCrMo-3							
NI 3-01	JIS Z3334 S Ni 6625								
	EN 18274 S Ni 6625								
Shielding Gas: 100% Ar	GB T15620 S Ni 6625								

### **Applications and Features**

- (1) High molybdenum content provides good stress, pitting and crevice corrosion resistance.
- (2) Ideal for welding materials of similar composition, such as Inconel 601, 625, 718 and Alloy 20.
- (3) Suited for welding pipeline and reactor components in power generation industry, high

temperature service in engineering applications such as furnace equipment, petrochemical

plants, and marine/offshore environments.

### Welding Position



### Welding Instruction

- (1) Clean surface of base metal before welding.
- (2) For other instructions, please refer to Appendix C.

# Typical Chemical Composition of Weld Metal (wt%)

С	Si	Mn	Cr	Fe	Мо	Nb	Ni
0.012	0.08	0.05	21.23	2.54	9.22	3.45	63.05

## **Typical Mechanical Properties of Weld Metal**

Tensile Strength	Yield Strength	Elongation		Charpy V-Notch			
N/mm <sup>2</sup>	N/mm <sup>2</sup>	%		°C		J	
814	523	39		-196		100	
Size and Suggested Operating Range (DC-)							
Diameter (mn	n) 1.0	1.2	1.6	2.0	2.4	3.2	
Length (mm)	)	1000					