### TIG RODS FOR HEAT-RESISTANT LOW-ALLOY STEEL

### **DESCRIPTION & APPLICATIONS:**

- STG-80B2 is a solid tungsten rod for 1.25%Cr-0.5%Mo heat-resistant low alloy steel with high tensile strength and excellent creep resistance.
- •Suitable for pipelines of high temperature high pressure, steel of boiler exchanger, A387 Gr.11 and Gr.12.

### **NOTE ON USAGE:**

- •Use Ar as shield gas, purity should be above 99.997%, and control the flow properly. The gas flow should be 7~12 l/min when the current is 100~200Amp; 12~15 l/min when the current is 200~300Amp.
- ●The proper Wire-stick-out should be 5mm, and arc should be 1~3mm.
- There should be proper win shielded facility in case of porosities.

## WFIDING POSITION:











# TYPICAL CHEMICAL COMPOSITION OF WELD METAL (wt%): (Ar)

С	Mn	Si	P	S	Cr	Мо
0.08	0.59	0.53	0.018	0.009	1.29	0.53

## TYPICAL MECHANICAL PROPERTIES OF WELD METAL: (Ar)

	TENSILE STRENGTH N/mm <sup>2</sup> (Kgf/mm <sup>2</sup> )		HEAT TREATMENT
490(50.0)	580(59.2)	26	690°Cx1hr

## SIZE AND RECOMMENDED CURRENT RANGE: DC(-)

Diameter (mm)	1.2	1.6	2.0	2.4	3.2	4.0
Current (Amp)	70-90	80-100	90-120	100-160	160-220	180-250