TIG RODS FOR HEAT-RESISTANT LOW-ALLOY STEEL

DESCRIPTION & APPLICATIONS:

- ■STG-90B3 is a solid rod for 2.25%Cr-1%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	Р	S	Cr	Мо
0.08	0.58	0.48	0.018	0.009	2.37	1.02

TYPICAL MECHANICAL PROPERTIES OF WELD METAL: (Ar)

YIELD POINT N/mm ² (Kgf/mm ²)	TENSILE STRENGTH N/mm ² (Kgf/mm ²)		HEAT TREATMENT
590(60.2)	660(67.3)	22	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