### SMAW WELDING FOR HARD SURFACE WEAR RESISTANCE

#### DESCRIPTION & APPLICATIONS:

- ●SH-50N4 belongs to titanium oxide low hydrogen electric welding rod. The dissolved gold component is Matian loose iron structure and contains nickel (Ni), molybdenum (Mo) and other elements.
- Strong toughness, excellent heat resistance, corrosion resistance and cracking resistance, great effect on resisting thermal fatigue cracking, and excellent wear resistance to reheating at high temperature.
- Applicable to water wheel blades, heat exchanger wings, eye masks, unpopular seats, etc.

#### **NOTE ON USAGE:**

- Before welding, the weld should be dried at 150 ~ 200°C for 30 ~ 60 minutes. When in use, a small amount should be taken out and put into a drying cylinder at 100 ~ 150°C. The maximum amount of weld carried out should be the same day.
- It is suggested that the base metal should be preheated above 150 °C.
- Backing welding adopts low hydrogen welding material or Vosten iron stainless steel welding material.

# **WELDING POSITION:**





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

С	Mn	Si	Ni	Cr	Мо
0.15	0.24	0.65	3.81	12.69	0.69

### TYPICAL MECHANICAL PROPERTIES OF WELD METAL:

Condition	Vicker's	Rockwell's	Shores's
	(HV)	(HRC)	(HS)
Layer temprature 150° Cunder	497	51	68

# SIZE AND RECOMMENDED CURRENT RANGE: AC or DC(+)

	Diameter (mm)	3.2	4.0	5.0
	Length (mm)	350	350	350
	Current (Amp)	80-120	120-170	160-210