SMAW WELDING FOR HARD SURFACE WEAR RESISTANCE

DESCRIPTION & APPLICATIONS:

- SH-80 is a low hydrogen electric welder with self-hardening Matian loose iron structure.
- •It is most suitable for repairing and heap welding of mechanical parts with high wear resistance requirements, with excellent workability and welding slag peeling, and difficult machining.
- •It is suitable for pump barrel, cutter, pump barrel vane, earth stacker and other parts.

NOTE ON USAGE:

- ●Before welding, the weld should be dried at 300 ~ 350°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.
- The base metal is preheated at a temperature above 200°C.
- Low hydrogen welding material is used for backing welding.

WELDING POSITION:





TYPICAL CHEMICAL COMPOSITION OF WELD METAL (wt%):

С	Mn	Si	Cr	Мо	
0.59	1.12	1.00	9.20	0.60	

TYPICAL MECHANICAL PROPERTIES OF WELD METAL:

Condition		Vicker's (HV)		Rockwell's (HRC)		Shores's (HS)	
Layer temprature 150° Cunder		600		55		74	
pile up welding		560		53		71	
High temperature hardness	Temprarture(°C)	200	300	400	500	600	700
	Vicker's (HV)	520	480	430	420	210	95

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

Diameter (mm)	3.2	4.0	5.0
Length (mm)	350	400	400
Current (Amp)	80-120	120-170	160-210