Stick Electrode for Hardfacing			
	Classification		
	AWS	A5.13	E Fe7
KH-70-B	JIS	Z3251	DF3C-700-B
	EN	14700	E Fe4
Type of coating: Low hydrogen type	GB	T 984	_

Applications and Features

- Weld metal is martensite structure with carbide and boride precipitates.
- (2) It is unable to be machined and cut.
- (3) High hardness is attainable with only one layer of weld metal. The impact resistance is inferior.
- (4) It is used in severe metal-to-earth wear, such as repairing construction machines, scraper buckets and dredge pumps.



Dredge pump outlet

Welding Instruction

- (1) Dry the electrodes at 300-350°C for 30-60 minutes before use.
- (2) Preheat temperature should be \geq 200°C and PWHT should be 600°C.
- (3) Take the back-step method to prevent porosity at the arc starting.
- (4) Use high tensile strength low hydrogen electrode for the buffer layer in multi-layer build-up and base metal with high hardenability.

Typical Ch	ypical Chemical Composition of Weld Metal (wt. %)				
С	Si	Mn	Cr	В	Мо
0.900	1.28	0.80	7.00	0.50	1.20

Typical Hardness of Weld Metal

Hardness Condition	Vicker's hardness (HV)	Rockwell's hardness (HRC)	Shore's hardness (HS)
Interpass temp.≤100°C	720	61	83
Continuous build-up	680	59	80

Size and Suggested O				
Diameter x Length(mm)	3.2x350	4.0x350	5.0x350	6.0X400
Amp	80~120	120~170	160~210	200~280