Stick Electrode for Hardfacing				
	Classification			
	AWS	A5.13	—	
NU-00-K	JIS	Z3251	DF3B-600-R	
	EN	14700	E Fe4	
Type of coating: High titania type	GB	T 984	EDPCrMo-A5-03	

## **Applications and Features**

- (1) Weld metal is martensite structure with stable hardness but inferior toughness.
- (2) It is difficult to be machined and cut.
- (3) It provides excellent arc re-start, slag removal and bead appearance.
- (4) It is suitable for severe metal-to-earth wear condition, such as repairing valve brackets, pump linings and blades.

## Welding Instruction

- (1) Dry the electrodes at 70-100°C for 30-60 minutes before use.
- (2) Preheat temperature should be  $\geq$  200°C and PWHT should be 600°C.
- (3) Use high tensile strength low hydrogen electrode for the buffer layer in multi-layer build-up

and base metal with high hardenability.

Typical Chemical Composition of Weld Metal (wt. %)										
С		Si	Mn	Cr	Мо					
0.420		0.45	0.75	6.30	0.60					
Typical Hardness of Weld Metal										
Condition	Hardness	Vicker's har (HV)	dness	Rockwell's hardness (HRC)	Shore's hardness (HS)					
Interpass terr	np.≤150°C	630		57	77					
Continuous b	uild-up	600		55	74					

Size and Suggested Operating Range (AC or DC+)								
Diameter x Length(mm)	3.2x350	4.0x350	5.0x350	6.0X400				
Amp	80~120	120~170	160~210	200~280				