K-505-15 AWS E505-15 JIS DT2616 KS DT2616

Typical applications

Welding of super-heater tubes of high temperature and high pressure boilers, heater tubes of oil refining equipments.

Coating

Low hydrogen type.

Characteristics on Usage

- ① Preheat at 250~400°C and postheat treat at 730~780°C because of high self-hardening property of the deposited weld metal.
- ② Redry the electrode at 300~350°C for 60 minutes prior to use.

Typical chemical composition of all-weld-metal (%)

C	Si	Mn	Cr	Мо
0.08	0.45	0.88	8.86	0.90

Typical mechanical properties of all-weld-metal

Y ⋅ P	T · S	El	PWHT	
N/mm²{kgf/mm²}	N/mm²{kgf/mm²}	(%)		
470 {48}	540 {55}	33	850℃×1hr. S·R	

Sizes available and recommended currents ($DC \oplus$)

Dia.	(mm)	2.6	3.2	4.0	5.0	6.0
Length	(mm)	350	350	400	400	450
Amp.	F	60~90	80~120	120~160	160~220	210~260
	V&OH	50~60	70~110	90~150	-	-

Welding positions











FOR HEAT-RESISTING STEEL

Approved by