FOR LOW TEMPE-RATURE SERVICE STEEL

# AWS E8018-C1 K-8018C1

#### **Typical applications**

Welding of 2.5%Ni steel and aluminium-killed steel used at low temperature, LPG tanker, LNG tanker, etc.

#### Coating

Low hydrogen, iron powder type.

#### Characteristics on Usage

- ① Excellent notch toughness of the deposited weld metal at low temperature.
- (2) Stable arc in flat and horizontal fillet welding.
- 3 Weld metal of fine ripple mark without undercut can be obtained.
- ④ Redry the electrodes at 350~400°C for 60 minutes prior to use.

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

С	Si	Mn	Ni
0.06	0.60	0.98	2.41

#### Typical mechanical properties of all-weld-metal

Y · P N/mm²{kgf/mm²}	T · S N/mm²{kgf/mm²}		Charpy V-notchJ {kgf⋅m} (-50°C) (-60°C)	
530 {54}	640 {65}	29	120 {12} 80 {8}	As welded
500 {51}	600 {61}	32	170 (17) 130 (13)	620℃×1hr. S∙R

### Sizes available and recommended currents (AC or DC $\oplus$ )

Dia.	(mm)	2.6	3.2	4.0	5.0	6.0
Length	(mm)	350	350	400	400	450
۸mn	F	60~100	90~130	130~190	190~250	250~300
Amp.	V&OH	60~90	80~120	110~170	_	_

## Welding positions











# Approved by

ABS, DNV, LR