FOR HEAT-RESISTING STEEL AWS E502-16 JIS DT2516 KS DT2516 **K-502** 

### Typical applications

Welding of heat treated high tensile strength steel for aircraft parts, such as SAE 4130.

Welding of 5%Cr-0.5%Mo steel used in oil refining and chemical industries.

# Coating

Low hydrogen type.

#### Characteristics on Usage

- ① Preheat at 250~350°C and postheat treat at 730~760°C because of high self-hardening properties 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 (%)

С	Si	Mn	Cr	Мо
0.06	0.43	0.57	4.98	0.51

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

Temp.	Y · P N/mm²{kgf/mm²}	T · S N/mm²{kgf/mm²}	EI (%)	PWHT	
R.T	420 {43}	540 {55}	33	850℃×1hr. S•F	
500℃	380 {39}	420 {43}	6		

### Sizes available and recommended currents (AC or DC ⊕)

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Dia.	(mm)	2.6	3.2	4.0	5.0	6.0
Length	(mm)	350	350	400	400	450
Amn	F	50~90	80~120	120~160	160~210	210~260
Amp.	V&OH	50~80	70~110	90~130	_	_

# Welding positions











# Approved by