

S-11016.G

TYPE : Basic

AWS A5.5 / ASME SFA5.5 E11016-G
EN 757 - E62 2 Mn2NiMo B 1 2

Applications

S-11016.G can be used for welding of high tensile steel, such as pressure vessels, penstock and bridges.

Characteristics on Usage

- ① Good X-ray performance.
- ② High crack resistance and good mechanical properties. Extremely reliable for welding of 780MPa(116,000lbs/in²) class high tensile steel.

Notes on Usage

- ① Dry the electrodes at 350~400°C(662~752°F) for 60 minutes before use.
- ② Adopt back step method or strike the arc on a small steel plate prepared for this particular purpose.
- ③ Preheat at 150~200°C(302~392°F). The temperature varies in accordance with plate thickness and kind of steel.
- ④ If each pass welds becomes thicker than acceptable level by high amperage or low speed ratio application, the impact values and yield points will decrease.

Welding Position



1G (PA) 2F (PB) 3G (PF) 4G (PE)

Current

AC or DC +

Typical Chemical Composition of All-Weld Metal (%)

C	Si	Mn	P	S	Cr	Ni	Mo
0.07	0.45	1.56	0.017	0.013	0.20	2.25	0.40

Typical Mechanical Properties of All-Weld Metal

YS MPa(lbs/in ²)	TS MPa(lbs/in ²)	EL (%)	Temp. °C (°F)	CVN-Impact Value J (ft · lbs)
760 (110,300)	790 (114,600)	24.0	-20 (-4)	130 (96)

Approval

ABS

I Packing

Packet 5 kg (11 lbs)
Carton 5 kg (11 lbs) × 4 : 20kg(44 lbs)

Sizes Available and Recommended Currents (Amp.)

Size mm (in)	2.6 (3/32)	3.2 (1/8)	4.0 (5/32)	5.0 (3/16)	6.0 (15/64)
Length mm(in)	350 (14)	350 (14)	400 (16)	400 (16)	450 (18)
F	60~90	90~130	130~180	180~240	250~310
V-up, OH	50~80	85~120	110~170	150~200	-