

# S-707TP × H-14

TYPE : Neutral

AWS A5.17 / ASME SFA5.17 F7A(P)6-EH14  
JIS Z3183 S502-H  
EN ISO 14174 S A AB 1 / EN ISO 14171 S4

SAW

## Applications

Multi-layer welding of various kinds of structures such as ship building, machinery, pressure vessels.

## Characteristics on Usage

Excellent notch toughness at low temperature. Good mechanical properties can be obtained with multi-layer welding using high heat input. It deposits weld metal of good appearance even in low speed welding with high currents.

## Notes on Usage

- ① Dry the flux at 300~350° C (572~662° F ) for 60 minutes before use.
- ② When the flux height is excessive, poor bead appearance may occur.
- ③ Add new flux periodically to prevent the weld defects and bad bead appearance which occurs when continuously reusing the flux.

### Approval

KR, ABS, LR, BV, DNV, GL, NK

### I Current

AC, DC +

### I Basicity Index

1.8

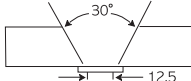
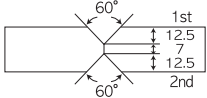
### Typical Chemical Composition of All-Weld Metal (%)

Wire	C	Si	Mn	P	S	BM	Th.(mm)
H-14	0.09	0.25	1.40	0.020	0.016	SS400	25
	0.11	0.29	1.60	0.022	0.014	EH36	32

### Typical Mechanical Properties of All-Weld Metal

Wire	YS MPa(lbs/in <sup>2</sup> )	TS MPa(lbs/in <sup>2</sup> )	EL (%)	Temp. °C (°F)	CVN-Impact Value J (ft · lbs)	BM	Th.(mm)
H-14	510 (74,000)	570 (82,800)	28	-51 (-60)	80 (59)	SS400	25
	550 (76,800)	590 (85,700)	-	-40 (-40)	60 (44)	EH36	32

### Typical Welding Conditions

Wire	Dia. (mm)	Th. (mm)	Groove Design (mm)	Pass	Amp. (A)	Volt. (V)	Speed (cm/min)	Remarks
H-14	4.0	25		1~13	570	30	40	AWS A5.17
				1	200	28	20	(FCAW)
H-14	4.8	32		2	280	32	25	(FCAW)
				3	600	32	35	Both
				4~8	700	34	40	Multi-pass
				9~	800	36	40	pass