

Rev. 01



## FLUX CORED ARC WELDING CONSUMABLE FOR HARDFACING

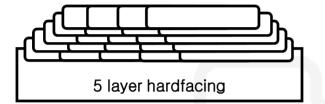
# HYUNDAI WELDING CO., LTD.

				SC-6	00H				
Specification	JIS Z3326	YF3B-C-	-600						
Applications	For abrasion pa	rts, hardfacing o	f roller, Screw c	onveyer, etc.					
Characteristics on Usage	SC-600H is a flux cored wire designed for hardfacing application with 100% CO2 shielding gas. It is highly recommendable to use on wear plate and weld metal's hardness should be over Hv 600.								
✤ Note on Usage	Preheat at $200 ^{\circ}C(392^{\circ}F)$ and more than that in general. Use with 100% CO <sub>2</sub> shielding gas.								
✤ Packing	Dia.	1.2mm (0.045in)	1.4mm (0.052in)	1.6mm (1/16in)					
	Spool		15kg(33lbs)						

# SC-600H

### Mechanical Properties & Chemical Composition of All Weld Metal

### Welding Conditions



Diameter	: 1.2mm(0.045in)
Shielding Gas	: 100% CO <sub>2</sub>
Flow Rate(ℓ /min.)	: 20~22
Amp./ Volt.	: 260/30
Stick-Out	: 20mm(0.79in)
Pre-Heat	: ≥150℃(302°F)
Interpass Temp.	: 150±15℃(302±59°F)
Polarity	: DC(+)

Method by JIS Spec.

Chemical Analysis of All weld metal(wt%)

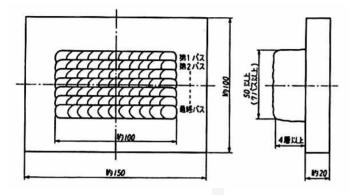
O a maxim a h la	Shielding	Chemical Composition (%)									
Consumable	Gas	С	Si	Mn	Р	S	Cr	Мо	v	w	Others
SC-600H 1.2mm (0.045in)	100%CO2	0.37	0.50	0.75	0.011	0.007	4.12	0.58	_	_	_
SC-600H 1.4mm (0.052in)		0.33	0.50	0.75	0.011	0.006	4.14	0.59	_	_	_
SC-600H 1.6mm (1/16in)		0.33	0.40	0.62	0.009	0.006	4.06	0.59	_	_	-
JIS Z: YF3B-C		0.10~ 1.50	≤3.0	≤ <b>3.0</b>	≤0.03	≤0.03	3.0~ 10.0	≤4.0	≤2.0	≤4.0	≤2.0

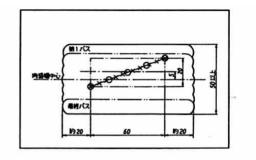
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## SC-600H

### Mechanical Properties & Chemical Composition of All Weld Metal

#### Hardness test of All weld metal(HRc)





×印:ビッカース硬さ又はロックウェル硬さ測定位置(等間隔に10点測定) 〇印:プリネル硬さ測定位置(等間隔に5点測定)

#### [Method of Hardness Test for Deposited Metal(JIS Z3114 –1990)]

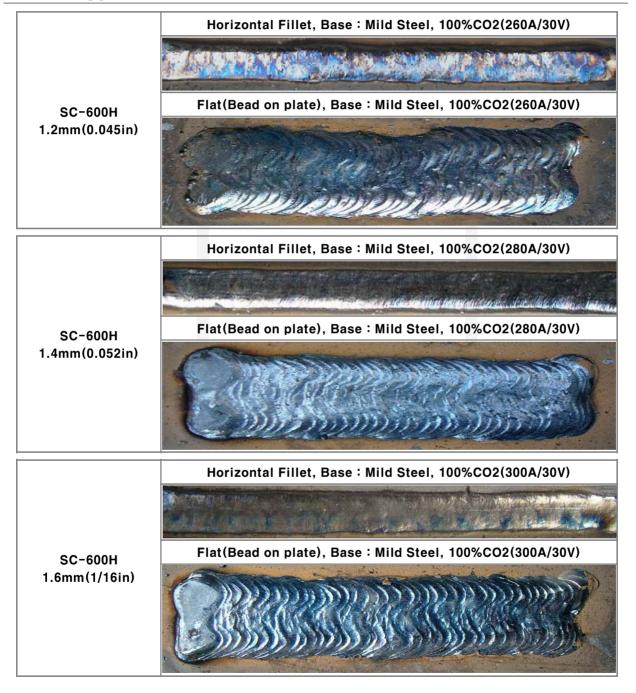
Consumable	Hardness(HRc)									Avg.	
SC-600H 1.2mm(0.045in)	57	57	57	57	58	58	59	59	59	59	58.0(660Hv)
SC-600H 1.4mm(0.052in)	56	57	57	57	57	58	58	59	59	59	57.7(650Hv)
SC-600H 1.6mm(1/16in)	56	57	57	58	58	58	59	59	59	59	58.0(660Hv)
JIS Z3326 YF3B-C-600	52.3~60.1(550~700Hv)										

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SC-600H

## **Test Results**

#### Bead Appearance



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