

## **SC-350H**

FLUX CORED ARC WELDING CONSUMABLE FOR HARDFACING

**HYUNDAI WELDING CO., LTD.** 



### Specification

JIS Z3326

YF2A-C-350

## Applications

For intermetallic abrasion, hardfacing of roller, gear, etc. Cradling welding between worn metals

## Characteristics on Usage

SC-350H 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 350.

### Note on Usage

Preheat at 150°C (302°F) and more than that in general. Use with 100% CO₂ shielding gas.

#### Packing

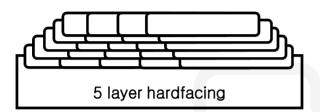
Dia.	1.2mm (0.045in)	1.6mm (1/16in)			
Spool	15kg(33lbs)	15kg(33lbs)			



# Mechanical Properties & Chemical Composition of All Weld Metal

#### **\* Welding Conditions**

Method by JIS Spec.



**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°C(302°F)

Interpass Temp. :  $150\pm15^{\circ}\text{C}(302\pm59^{\circ}\text{F})$ 

Polarity : DC(+)

### Chemical Analysis of All weld metal(wt%)

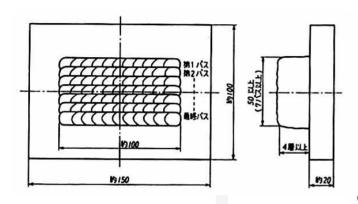
Consumable	Shielding	Chemical Composition (%)									
	Gas	С	Si	Mn	Р	S	Cr	Мо	Others		
SC-350H 1.2mm (0.045in)	100%CO2	0.10	0.50	1.45	0.010	0.006	1.30	0.31	-		
SC-350H 1.6mm (1/16in)		0.11	0.80	1.84	0.019	0.006	1.25	0.35	-		
	Z3326 C-350	≤0.30	≤1.5	≤ 3.0	≤0.03	≤0.03	≤3.0	≤1.5	≤1.0		

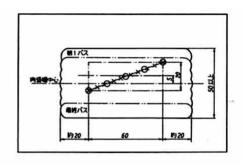
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## Mechanical Properties & Chemical Composition of All Weld Metal

#### 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:ブ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)]

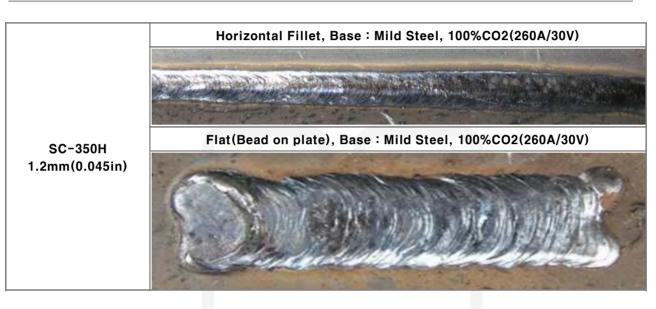
Consumable	Hardness(HRc)									Avg.	
SC-350H 1.2mm(0.045in)	36	36	36	36	37	37	38	39	39	40	37.5(370Hv)
SC-350H 1.6mm(1/16in)	35	35	36	37	37	37	37	38	38	39	37(365Hv)
JIS Z3326 YF2A-C-350	29.8~40.8(300~400Hv)										

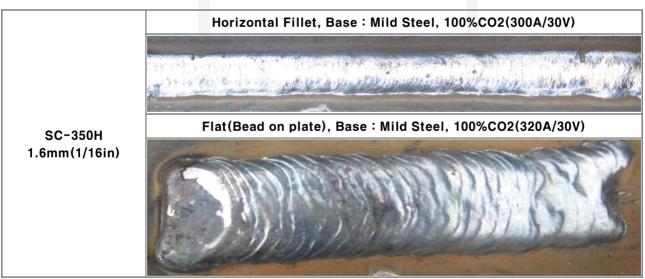
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### **Test Results**

#### **❖ Bead Appearance**





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