

Rev. 01



## FLUX CORED ARC WELDING CONSUMABLE FOR HARDFACING

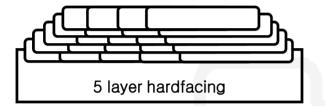
# HYUNDAI WELDING CO., LTD.

				SC-250H				
Specification	JIS Z3326	YF2A-C-	250					
Applications	For intermetallic abrasion, hardfacing of roller, gear, etc. Cradling welding between worn metals							
<ul> <li>Characteristics on Usage</li> </ul>	SC-250H 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 250.							
✤ Note on Usage	Preheat at 150°C(302°F) and more than that in general. Use with 100% CO <sub>2</sub> shielding gas.							
Packing	Dia.	1.2mm	1.6mm					
	Spool	(0.045in) 15kg(33lbs)	(1/16in) 15kg(33lbs)					

# SC-250H

## Mechanical Properties & Chemical Composition of All Weld Metal

### Welding Conditions



: 1.2mm(0.045in)
: 100% CO <sub>2</sub>
: 20~22
: 260/30
: 20mm(0.79in)
: ≥150°C(302°F)
: 150±15℃(302±59°F)
: DC(+)

Method by JIS Spec.

Chemical Analysis of All weld metal(wt%)

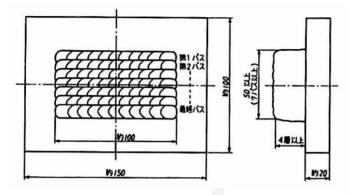
Consumable Gas	Shielding	Chemical Composition (%)									
	Gas	С	Si	Mn	Р	S	Cr	Мо	Others		
SC-250H 1.2mm (0.045in)	100%CO2	0.06	0.51	1.24	0.010	0.007	1.10	0.006	_		
SC-250H 1.6mm (1/16in)		0.06	0.57	1.31	0.011	0.008	1.15	0.007	-		
	Z3326 C-250	≤0.30	≤1.5	≤ <b>3.0</b>	≤0.03	≤0.03	≤3.0	≤1.5	≤1.0		

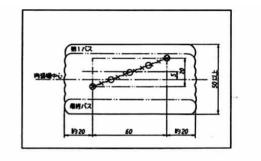
This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.

## SC-250H

### 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)]

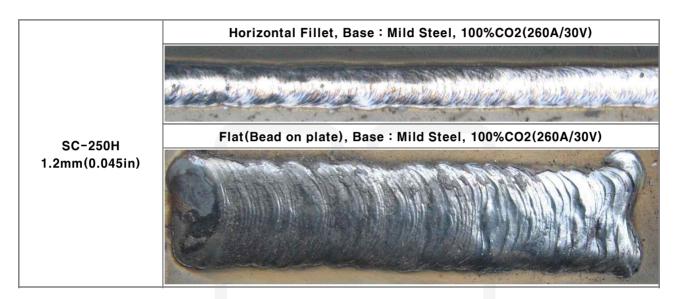
Consumable		Hardness(HRc)								Avg.	
SC-250H 1.2mm(0.045in)	22	23	23	23	23	24	24	24	24	25	23.5(260Hv)
SC-250H 1.6mm(1/16in)	22	22	23	23	23	23	23	24	24	25	23.2(255Hv)
JIS Z3326 YF2A-C-250	11~30(200~300Hv)										

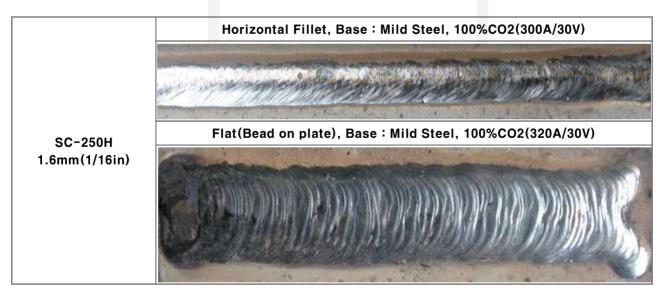
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SC-250H

## **Test Results**

#### Sead Appearance





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