

Rev. 02

SC-600HM

METAL CORED WIRE FOR HARDFACING

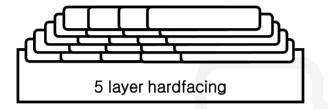
HYUNDAI WELDING CO., LTD.

			SC-600HI	И					
Specification	-								
* Applications	For cutting tools, shear blades, rollers for cold rolling mills								
Characteristics on Usage	SC-600HM is a metal cored wire without slag for hardfacing application with Ar-CO ₂ mixed gas. It is high resistance to cracking and toughness.								
Note on Usage	Use with 80%Ar -	+ 20%CO ₂ shielding gas.							
✤ Packing	Dia.	1.2mm (0.045in)	1.6mm (1/16in)						
	Spool 5kg(11lbs), 15kg(33lbs)								

SC-600HM

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



Diameter	: 1.2mm(0.045in)
Shielding Gas	: 80%Ar+20%CO ₂
Flow Rate(ℓ /min.)	: 20~22
Amp./ Volt.	: 260/30
Stick-Out(mm)	: 20mm(0.79in)
Pre-Heat(℃)	: ≥150°C(302°F)
Interpass Temp.(℃)	: 150±15℃(302±59°F)
Polarity	: DC(+)

Chemical Analysis of All weld metal(wt%)

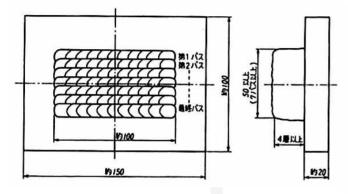
Consumable	Shielding Gas	Chemical Composition (%)								
		с	Si	Mn	Р	s	Cr	Мо		
SC-600HM 1.2mm (0.045in)	80%Ar+ 20%CO ₂	0.45	0.50	1.63	0.012	0.009	6.37	0.37		
SC-600HM 1.6mm (1/16in)		0.48	0.52	1.66	0.012	0.009	6.45	0.38		

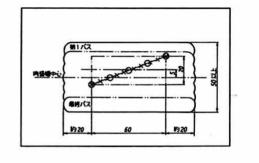
This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING 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-600HM

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-600HM 1.2mm(0.045in)	58	58	59	59	59	59	60	60	61	62	59.5
SC-600HM 1.6mm(1/16in)	58	59	59	59	60	61	61	62	62	62	60.3

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Test Results

* Bead Appearance



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