

Rev. 01

S-7014.F

COVERED ARC WELDING ELECTRODE FOR HIGH EFFICIENT WELDING

HYUNDAI WELDING CO., LTD.

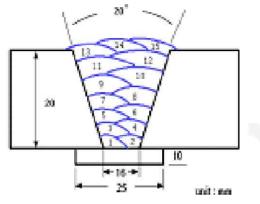
		<i>S-7014.F</i>
Specification	AWS A5.1	E7014
	JIS	-
	EN ISO 2560-A	E42 0 R 1 2
Applications		able for all types of carbon steel fabrications, ntal fillet welding of sheet metal and ornamental iron
Characteristics on Usage	As the contact welding	bowder electrode for high speed all position welding. Ing can be performed with this electrode, rodes is easy in horizontal fillet or in the groove.
Note on Usage	before use.	at 70-100°C (158~212°F) for 30-60 minutes exceed the range of proper currents.

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Mechanical Properties & Chemical Compositions of All Weld Metal

Welding Conditions

Method by AWS Spec.



Diameter, mm(in)	: 4.0 X 400(5/32 X 16)
Amp./ Volt.	: 170 / 23~24
Interpass Temp. ℃(°F)	: 80~130 (176~266)
Polarity	: AC

[Joint Preparation & Layer Details]

Mechanical Property of All Weld Metal

Consumable -		CVN Impact Value J (ft.lbs)		
	YS MPa (ksi)	TS MPa (ksi)	EL (%)	0°C (32°F)
S-7014.F	449(65)	510(74)	30.0	83(61)
AWS A5.1	≥ 400(58)	≥ 490(71)	≥ 17	≥ 27 (20)

Chemical Composition of All Weld Metal(wt%)

Consumable	Chemical Composition (%)					
	С	Si	Mn	Р	S	
S-7014.F	0.07	0.30	0.66	0.022	0.015	
AWS Spec	≤ 0.15	≤ 0.90	≤ 1.25	≤ 0.035	≤ 0.035	

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.

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Weldability

Weldability

Division Items		Checked	Remarks	
Start arc		Excellent		
Arc	Stability	Good		
	Concentricity	Excellent	-	
Slag -	Fluidity	Good t		
	Detachability	Excellent	•Welding conditions H-Fillet	
Bead appearance		Excellent		
Melting rate		Good		
Heat resistance		Good		
The others		Good		



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Size Available and recommended Current & Approval

Sizes Available and Reconnended Current

Diameter mm(in)		3.2 (1/8)	4.0 (5/32)	5.0 (3/16)	6.0 (15/64)
Length mm(in)		400 (16)	400 (16)	400 (16)	450 (18)
Recommended current range (AC or DC+ Amp.)	Flat & H-Fillet position	95 ~140	140 ~200	180 ~250	240 ~310

Authorized Approval Details

Classification	Dia. mm(in)	Welding position	Grade					
AWS			KR	ABS	LR	BV	DNV GL	NK
E7014	3.2(1/8) ~ 5.0(3/16)	All	2, 2Y	2Y	2, 2Y	2, 2Y	2	KMW5 2
	6.0(15/64)	F, H-Fil						2

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