

Rev. 02

SC-414S(N)

MARTENSITIC STS TYPE SUBMERGED ARC WIRE

HYUNDAI WELDING CO., LTD.

			SC-414S(N)	
Specification	_			
Description & Applications	SC-414S(N) is s continuous caste thermal fatigue c wear resistance (Steel Mill Rolls,	pecifically design er rolls and provid cracking and corro by adding N. Casting Rolls, etc	ed for weld overlay on les the greatest resistance to osion. Better tensile strength and c.)	
Welding Process	SAW (with S-402HF flux)			
Current Type	DC+			
Packing		Dia.	3.2mm(1/8in)	
	SC-414S(N)	Coil	25kg(55lbs)	
		Pailpack	150kg(330lbs), 250kg(551lbs)	

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



Diameter	:	3.2mm(1/8in)
Welding Type	:	SAW(S-402HF)
Amp./ Volt.	:	400 / 30
Stick-Out	:	25~30mm(0.98~1.18in)
Pre-Heat	:	150~250℃ (302~482°F)
Interpass Temp.	:	200~300℃ (392~572°F)
Total layers	:	≥4 layer

Chemical Analysis of All weld metal(wt%)

Consumable	с	Si	Mn	Cr	Ni	Мо	Nb	v	N
SC-414S(N)	0.1	0.6	1.8	14.0	2.5	1.2	0.2	0.3	0.05

Hardness test of All weld metal(HRc)

Consumable	Hardness(HRc)				Avg.	
SC-414S(N)	45	46	46	47	48	46.2



[Point of Hardness Test]

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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Test Results

✤ Microstructure



BEAD APPEARANCE

Consumable	SC-414S(N) (3.2mm, 1/8in)			
Amp.(A)	380~400			
Volt.(V)	30			
Carrige Speed	40~60cm/min(15.7~23.6in/min)			
Welding Position	Flat(1G)			

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