

## S-310.15

SHIELDED METAL ARC WELDING CONSUMABLE FOR WELDING OF 25% Cr-20% Ni STAINLESS STEEL

2021.05

**HYUNDAI WELDING CO., LTD.** 



Specification

**AWS A5.4** E310-15

**JIS Z3221** ES310-15

**EN ISO 3581-A** E 25 20 B

Applications

S-310.15 is designed for welding of 25%Cr-20%Ni stainless Steels.

Characteristics on Usage

S-310.15 is a Basic type electrode for DC(+) full austenitic electrode for 25%Cr-20%Ni stainless steel. Weld metal has full austenitic structure and good mechanical property especially excellent toughness.

Note on Usage

- 1. Dry the electrodes at 350°C(662°F) for 60 minutes before use.
- 2. Remove dirts such as oil and dust from the groove.
- 3. Weaving width should be within two and a half times of electrode's diameter.
- Type of Current

DC+

Packing

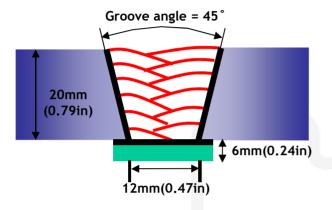
Packet	2.5kg(5.5lbs) / 5Kg(11lbs)
Carton	2.5kg(5.5lbs) X 4 : 10kg(22lbs) 5Kg(11lbs) x 4 : 20Kg(44lbs)



# Mechanical Properties & Chemical Composition of All Weld Metal

### Welding Conditions

Method by AWS Spec.



Diameter : 4.0mm(5/32in)

Amp./ Volt. : 140/25

Travel speed : 13~18(Cm/min)

Pre-Heat : R.T.

Interpass Temp.

: 150±15℃(302±59°F)

Position : Flat
Polarity : DC+

[ Joint Preparation & Layer Details ]

### Mechanical Properties of All weld metal

Consumable	Tensile Test					
S-310.15	TS MPa (lbs/in²)	EI(%)				
	610(88,000)	35				
AWS A5.4 E310-XX	≥550(80,000)	≥ 30				

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

Consumable	Chemical Composition (%)									
	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu	
S-310.15	0.09	0.50	2.30	0.020	0.010	21.0	25.5	0.09	0.05	
AWS A5.4 E310-XX	0.08~ 0.20	≤0.75	1.0~ 2.5	≤0.03	≤0.03	20.0~ 22.5	25.0~ 28.0	≤0.75	≤0.75	

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