

S - 308L.16N

SHIELDED METAL ARC WELDING CONSUMABLE FOR WELDING OF 18% Cr-8% Ni STAINLESS STEEL

HYUNDAI WELDING CO., LTD.



Specification

AWS A5.4 E308L-16

JIS Z3221 ES308L-16

EN 1600 E 19 9 L R

Applications

S-308L.16N is designed for welding of 18%Cr-8%Ni stainless steels. (Petrochemical processing, textile industries etc.)

Characteristics on Usage

S-308L.16N is a lime-titania type electrode for extra-low carbon 18%Cr - 8% Ni steel with good usability. It is quite efficient because Its burn-off rate and deposition rate are high because comparatively High amperage can be used.

Note on Usage

- 1. it is mostly effective to proceed with welding. Keeping the arc as short as possible in flat position.
- 2. Remove dirts such as oil and dust from the groove.
- 3. Dry the electrode at 350 °C (662°F) for 60 minutes before use.

Type of Current

AC or DC+

Packing

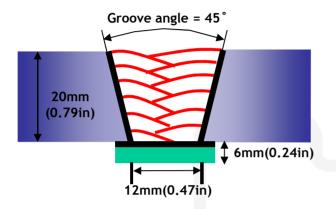
Packet	2.5kg(5.5lbs)
Carton	2.5kg(5.5lbs) X 4 : 10kg(22lbs)



Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions

Method by AWS Spec.



Diameter(mm) : 4.0 mm(5/32)

Amp./ Volt. : 140/25Travel speed(Cm/min) : $13\sim18$ Pre-Heat($^{\circ}$) : R.T.

Interpass Temp. $^{\circ}C(^{\circ}F)$: $150\pm15(302\pm59)$

Position : Flat

Polarity : AC or DC+

[Joint Preparation & Layer Details]

Mechanical Properties of All weld metal

Consumable	Tensile T	CVN Impact Test Joule(ft·lbs)	
S-308L.16N -	TS MPa(ksi)	EI(%)	-60°C(-76°F)
	561(81)	44.0	43(38)
AWS A5.4 E308L-XX	≥520(75)	≥ 35	Not Specified

Chemical Analysis of All weld metal(wt%)

Company managed a	Chemical Composition (%)								
Consumable	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
S-308L.16N	0.025	0.65	0.66	0.026	0.011	9.86	19.62	0.14	0.12
AWS A5.4 E308L-XX	≤0.04	≤1.0	0.5~ 2.5	≤0.04	≤0.03	9.0 ~11.0	18.0 ~21.0	≤ 0.75	≤ 0.75

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.

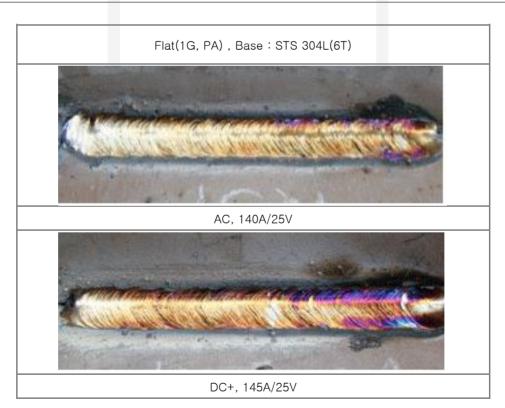


Mechanical Properties & Chemical Composition of All Weld Metal

* δ - Ferrite No.

		Diagram	FERITSCOPE MP-30 *	
Consumable	Schaeffler	Delong	WRC(1992)	(FISCHER)
S-308L.16N	10.6	9.3	6.6	5~6

❖ Bead Appearance



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Approvals

*** AUTHORIZED APPROVAL DETAILS**

Consumable	KR	ABS	LR	
	RD308L	AWS A5.4 E308L-16	304L	
	2.4~5.0	2.4~5.0	2.4~5.0	
	BV	DNV	NK	
	308L	308L	KD308L	
	2.0~5.0	2.4~5.0	2.4~5.0	
S-308L.16N	CWB	TUV	CE	
	CSA W48-06 E308L-16	EN 1600 E 199 L R	EN 1600 E 199 L R	
	2.0~5.0	2.0~5.0	2.0~5.0	
	DB	ccs		
	E199LR (1.4316) DIN EN 1600	304L		
	2.0~5.0	2.0~5.0		

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