

Rev. 03

S - 308L.17

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

2020.12

HYUNDAI WELDING CO., LTD.

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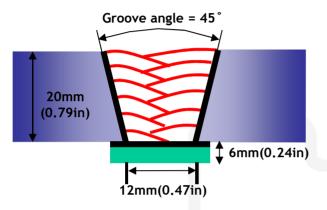
<u>S -308L.17</u>

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Method by AWS Spec.

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



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	: AC or DC+

[Joint Preparation & Layer Details]

Mechanical Properties of All weld metal

Consumable	nsumable Tensile Test CVN Impact Test Joule(ft·lbs)				
0 2001 17	TS MPa (Ibs/in²)	EI(%)	-60℃(-76°F)	-196℃(-320°F)	
S-308L.17	580(84,000)	50.4	50(37)	26(19)	
AWS A5.4 E308L-XX	≥520(75,000)	≥ 35	Not Specified		

Chemical Analysis of All weld metal(wt%)

Canaumahla	Chemical Composition (%)								
Consumable	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
S-308L17	0.02	0.63	0.98	0.028	0.017	9.9	19.0	0.17	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.

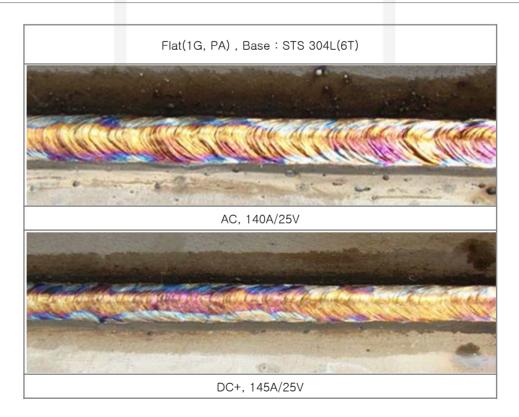
<u>S -308L.17</u>

Mechanical Properties & Chemical Composition of All Weld Metal

δ – Ferrite No.

Canaumahla		Diagram	
Consumable	Schaeffler	Delong	WRC(1992)
S-308L.17	10.3	10.9	8.2

* Bead Appearance



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Approvals

*** AUTHORIZED APPROVAL DETAILS**

Consumable	ABS	
S-308L.17	AWS A5.4 E308L-17	
	2.0~5.0	



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