

Rev. 03

S-308L.15

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

2020.12

HYUNDAI WELDING CO., LTD.

		S-308L.15			
Specification	AWS A5.4	E308L-15			
	EN ISO 3581-A	E 19 9 L B			
Applications	-	ned for welding of 18%Cr-8%Ni stainless steels. cessing, textile industries etc.)			
Characteristics on Usage	S-308L.15 is a basic coated type electrode for extra-low carbon 18%Cr – 8% Ni steel with good usability.				
Note on Usage	 it is mostly effective to proceed with welding. Keeping the arc as short as possible in flat position. Remove dirts such as oil and dust from the groove. Dry the electrode at 350℃(662°F) for 60 minutes before use. 				
Type of Current	DC+				
Packing	Packet	2.5kg(5.5lbs)			
	Carton	2.5kg(5.5lbs) X 4 : 10kg(22lbs)			

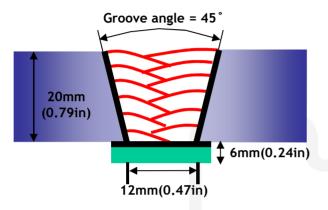
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<u>S-308L.15</u>

Method by AWS Spec.

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



Diameter	: 4.0mm(5/32in)
Amp./ Volt.	: 125/24
Travel speed	: 13~18(Cm/min)
Pre-Heat	: R.T .
Interpass Temp.	: Max 150℃(302°F)
Position	: Flat
Polarity	: DC+

[Joint Preparation & Layer Details]

Mechanical Properties of All weld metal

Consumable		Tensile Test	CVN Impact Test Joule(ft·lbs)		
S-308L.15	YS MPa (Ibs/in²)	TS MPa (Ibs/in²)	EI(%)	−115℃ (−175°F)	−196℃ (-320°F)
	425(62,000)	600(87,000)	48.0	50(37)	35(26)
AWS A5.4 E308L	_	≥520(75,000)	≥ 30	Not Specified	

Chemical Analysis of All weld metal(wt%)

O a ra a visa a b la	Chemical Composition (%)								
Consumable	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
S-308L.15	0.030	0.20	1.20	0.015	0.010	9.90	19.30	0.02	0.02
AWS A5.4 E308L	≤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.

δ – Ferrite & Lateral expansion

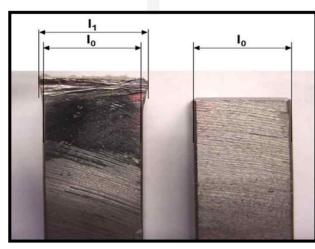
δ – Ferrite No.

Consumable	Diagram	FERITSCOPE MP-30	
Consumable	WRC(1992)	(FISCHER)	
S-308L.15	6.1	3~8FN	

Lateral expansion

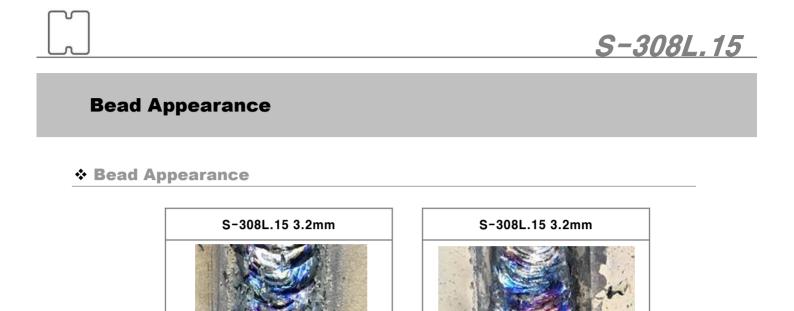
Canaumable	Lateral expansion, mm(in),-196℃(-320°F)				
Consumable	X1	X2	X3	Avg.	
S-308L.15	0.40(0.016)	0.41(0.016)	0.43(0.017)	0.41(0.016)	







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DC+ Pipe 5G

DC+, V-up 3G

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