

SM-308L

HYUNDAI WELDING CO., LTD.



Specification

AWS A5.9 ER308L

JIS Z3321 YS308L

Applications

MIG welding of low carbon 18% Cr-8% Ni steel for chemical industries such as oil, medical ,fertilizer and textile industries and for nuclear reactors.

Characteristics on Usage

SM-308L is an austenitic type stainless steel wire, the weld metal contains ferrite and crack sensitivity is extremely good. The Usability, such as arc stability and assimilability of welds to base metal is extremely excellent.

Resistance to corrosion and mechanical properties of weld metal are great.

Note on Usage

Use 100% Ar gas or Ar+ 2~5 % O2 gas

Packing

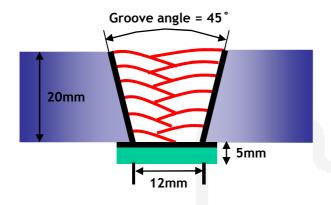
Dia.(mm)	0.8	0.9	1.0	1.2	1.6
Spool (kg) *including ball pac			12.5		



Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions

Method by AWS Spec.



Diameter(mm) : 1.2mm

Shielding Gas : Ar+2% O2

Flow Rate(ℓ /min.) : 15~20

Amp./ Volt. : 230/27

Stick-Out(mm) : 20

Pre-Heat(℃) : R.T .

Interpass Temp.(℃) : 150±15

Polarity : DC(+)

[Joint Preparation & Layer Details]

Mechanical Properties of All weld metal

Consumable	Tensile	Test		pact test oule)	
SM-308L	TS(MPa)	EI(%)	0℃	-196℃	
	560	42.4	81.0	39.6	

Chemical Analysis of the wire(wt%)

Consumable	Shielding	Chemical Composition (%)								
	Gas	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
SM-308L	Ar+2% O2	0.019	0.38	1.95	0.025	0.013	9.82	20.4	0.17	0.16
AWS A		≤0.03	0.30~ 0.65	1.0~ 2.5	≤0.03	≤0.03	9.0~ 11.0	19.5~ 22.0	≤0.75	≤0.75

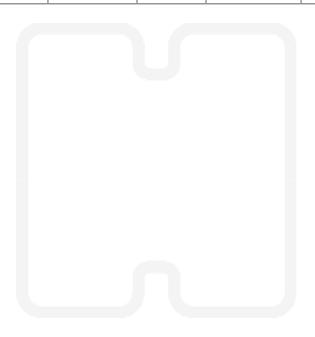
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Mechanical Properties & Chemical Composition of All Weld Metal

* δ - Ferrite No.

Canaumahla Chialdina Caa			Diagram	FERITSCOPE MP-30 *	
Consumable	Shielding Gas	Schaeffler	Delong	WRC(1992)	(FISCHER)
SM-308L	Ar+2% O2	10.4	13.6	14.7	13.5



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