

Rev. 00

SM-309LSi

HYUNDAI WELDING CO., LTD.

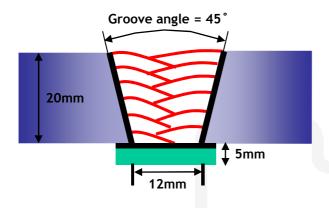
				SM-309LSi			
Specification	AWS A5.9 JIS Z3321	ER309LSi YS309LSi					
Applications	SM-309LSi is the same (for a low ferrite or full			or higher silicon content.			
Characteristics on Usage	SM-309LSi is an austenitic type stainless steel wire , the weld metal contains ferrite and crack sensitivity is extremely 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 A	r+2~5% O2	gas				
* Packing	Dia.(mm) Spool (kg) *including ball pac	0.9	1.2				

SM-309LSi

Method by AWS Spec.

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



[Joint Preparation & Layer Details]

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(+)

Mechanical Properties of All weld metal

Consumable	Tensile	Test	CVN Impact test (Joule)		
SM-309LSi	TS(MPa)	EI(%)	0°C	-196 ℃	
	571	40.2	102.3	37.3	

Chemical Analysis of the wire(wt%)

Consumable Shielding Gas	Chemical Composition (%)									
	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu	
SM-309LSi	Ar+2% O2	0.022	0.78	1.61	0.022	0.002	13.87	24.11	0.108	0.332
AWS A		≤0.03	0.65~ 1.00	1.0~ 2.5	≤0.03	≤0.03	12.0~ 14.0	23.0~ 25.0	≤0.75	≤0.75

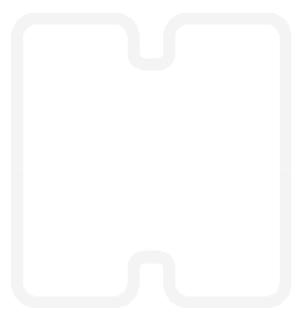
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SM-309LSi

Mechanical Properties & Chemical Composition of All Weld Metal

δ – Ferrite No.

Concumento	Shielding Coo		Diagram	FERITSCOPE MP-30 *	
Consumable	Shielding Gas	Schaeffler	Delong	WRC(1992)	(FISCHER)
SM-309LSi	Ar+2% O2	9.6	16	11.7	8.5



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