

Rev. 01

S-317L.16

SHIELDED METAL ARC WELDING CONSUMABLE FOR WELDING OF 18% Cr-12% Ni-3.5% Mo STAINLESS STEEL

2021.05

HYUNDAI WELDING CO., LTD.

		S-317L.16		
	AWS A5.4	E317L-16		
Specification	JIS Z3221	ES317L-16		
Applications	S-317L.16 is desi Steels.	gned for welding of 18%Cr-12%Ni-3.5%Mo stainless		
 Characteristics on Usage 		ne- titania type electrode provided with a good lability. It has an excellent resistibility to nitroxide		
Note on Usage	 Dry the electrodes at 350℃(662°F) for 60 minutes before use. Remove dirts such as oil and dust from the groove. Weaving width should be within two and a half times of electrode's diameter. 			
Type of Current	AC or DC+			
* Packing	Packet	2.5kg(5.5lbs) / 5Kg(11lbs)		
	Carton	2.5kg(5.5lbs) X 4 : 10kg(22lbs) 5Kg(11lbs) x 4 : 20Kg(44lbs)		

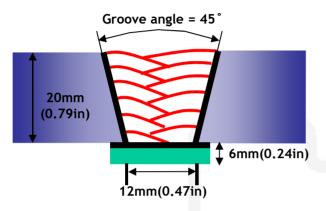
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<u>S-317L.16</u>

Method by AWS Spec.

Mechanical Properties & Chemical Composition of All Weld Metal

Welding Conditions



[Joint Preparation & Layer Details]

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

 Amp./ Volt.
 :
 140/25

 Travel speed(Cm/min)
 :
 13~18

 Pre-Heat(°C)
 :
 R.T.

 Interpass Temp.°C(°F)
 :
 150±15(302±59)

 Position
 :
 Flat

 Polarity
 :
 AC or DC+
- * Mechanical Properties of All weld metal

Consumable	Tensil	Tensile Test	
S-317L.16	TS MPa (lbs/in ²)	EI(%)	-60℃(-76°F)
3 3172.10	605(87,700)	38.5	50(37)
AWS A5.4 E317L	≥520(75,400)	≥ 30	Not Specified

Chemical Analysis of All weld metal(wt%)

Operations able	Chemical Composition (%)								
Consumable	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
S-317L.16	0.02	0.63	1.05	0.029	0.018	12.6	18.53	3.2	0.029
AWS A5.4 E317L	≤0.04	≤1.00	0.5~ 2.5	≤0.04	≤0.03	12.0 ~14.0	18.0 ~21.0	3.0~ 4.0	≤ 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.

Consumable	WRC(1992)	FERITSCOPE MP-30 * (FISCHER)
S-317L.16	8.4	6~8



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