Applications

SW-316LT is designed for welding of extra-low carbon 18%Cr-12%Ni-2%Mo stainless steels for cryogenic applications.

Characteristics on Usage

SW-316LT is a titania type flux cored wire for all position welding with CO_2 & Argon+ CO_2 mixed shielding gas. This wire is designed for cryogenic applications, 316L austenitic stainless steels. SW-316LT is also available to order as a variant with a controlled composition and low ferrite content, designed for cryogenic service.

This is particularly relevant to attack by chloride solutions and sulphurous acid.

Notes on Usage

(PA) (PB) (PF) (PE)

- (1) Both 100% CO_2 and mixed (Ar+20~25% CO_2) gas are useful.
- (2) Welders for solid wire can be used but as wire is softer than solid wire, pay full attention to adjust feeding roller and do not tighten them excessively.
- ③ Use the wind-screen against wind.
- ④ Where possible, preferred storage conditions of opened packs are 60% RH maximum, 18℃ minimum.

Welding Position	Current	Shielding Gas	
	DC +	CO ₂ /Ar+20~25% CO ₂	
1G 2F 3G 4G			

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C Si Mn P	S	Cr	Ni	Mo	
0.024 0.71 1.72 0.022	0.012	18.2	12.4	2.1	_

Typical Mechanical Properties of All-Weld Metal (Shielding Gas: 100% CO ₂)					
TS MPa(Ibs/in²)	EL (%)	Temp. ℃ (°F)	CVN-Impact Value J (ft · lbs)		
540 (78,300)	44	-196 (-321)	35 (26)		

Approval I Packing(Including Ball Pac)					
	Dia. (mm) 1.2 (in) .045	Spool(kg) 15 (lbs) 33			
Sizes Availabl	e and Recommended Currents (Amp	.)			
Size mm (in)	1.2 (.045)				
F & HF	180 ~ 220				
V-up, OH	120 ~ 160				