# **CEWELD®**

# **SA 317L**

CATEGORY	SAW Arc Submerged							
ТҮРЕ	Stainless steel SAW welding wire with excelent corosion properties against acid chloride containing environments.							
APPLICATIONS	For SAW welding stabilized and un-stabilized CrNiMo(N) type of steels with high corrosion resistance. Also suitable for dissimilar welds between steel and stainless steel or dissimilar stainless steels. 317L has good resistance to general corrosion and pitting due to its high content of molybdenum. The alloy is used in severe corrosion conditions such as in the petrochemical, pulp, cotton and paper industries.							
PROPERTIES	Austenitic, non magnetic stainless steel alloy with high mechanical properties and excellent weldabillity, corrosion resistance is better than AISI 316 due to the high Mo. content and also offers excellent corrosion resistance against delute hot acids. Suitable for use up to 400°C. SA 317L is best to be used in combination with FL 838							
CLASSIFICATION	AWS A 5.9: ER 317L EN ISO 14343-A: S 19 14 4 L DIN: W.Nr. 1.4453							
SUITABLE FOR	1.4439, 1.4429, 1.4438, 1.4583, X2CrNiMoN 17 13 5, X2CrNiMoN 17 13 3, X2CrNiMo 18 15 4, X10CrNiMoNb 18 12, 317LN, (TP)316LN, 317L, non magnetic, ferrite free. ASTM 317LMN, SS 2367.							
APPROVALS	CE approved							
WELDING POSITIONS:	PA PB X X X							

### WELD DEPOSIT WEIGHT % (ACC. AWS)

С	Mn	Si	Cr	Ni	Мо	Cu	Р	S
< 0.03	1,5-2,5	0,3-0,65	18,5-20.0	13.0-15.0	3.0-4.0	<0,3	<0.030	<0.020

# MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub>	Rm	A5	Impact Energy (J) ISO-V			Hardness
Treatment	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	(%)	20°C	-40°C	-60°C	HRc / HV
AW	>390	>520	>33	>70			

#### AW: as welded

## WELDING PARAMETERS / PACKING

	Welding Pa	rameters	Packing			
D (mm)	Voltage (V)	Current (A) (DC+)	spool type	kg / spool	kg / pallet	
1,6	27-30	200-300	K-415	25	1050	
2,4	29-33	300-400	K-415	25	1050	
3,2	29-33	350-500	K-415	25	1050	
4,0	30-36	400-600	K-415	25	1050	

REDRYING TEMPERATURE Not required