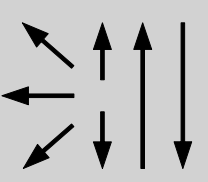


Classification					
AWS A5.22					
E316LT1-1					
Characteristics and typical fields of application					
<p>Avesta FC 316L-T1 is designed for welding austenitic stainless steel type 17Cr 12Ni 2.5Mo or similar. This filler metal is also suitable for welding titanium and niobium stabilised steels such as ASTM 316Ti in case where the construction will be operating at temperatures below 400°C. For higher temperatures a niobium stabilised consumable such as Avesta 347/MVNB is required.</p> <p>Avesta FC 316L-T1 provides the excellent usability with stable arc, less spattering, good bead appearance, better slag removal, and it is designed for all-round welding and can be used in all positions without changing parameter settings.</p>					
Base Materials					
Outokumpu 4436, 4432, 4429, 4571; EN 1.4436, 1.4432, 1.4429, 1.4571; ASTM 316, 316L, S31653, 316Ti, BS 316S33, 316S13, 316S63, 320S31, NF Z7 CND 18-12-03, Z3 CND 17-12-03, Z3 CND 17-12 Az, Z6 CND 17-12; SS 2343, 2353, 2375, 2350.					
Typical analysis of solid wire (wt.-%)					
C	Si	Mn	Cr	Ni	Mo
0.03	0.70	1.30	18.0	12.2	2.5
Ferrite Number ≈ 3 – 10 FN WRC 92					
Mechanical properties of all-weld metal					
Heat treatment	Yield strength R <sub>e</sub> N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J	
	MPa	MPa	%	- 20 °C	
As Welded	400	560	37	60	
Operating data					
		<b>Polarity</b> DC+	Interpass temperature : Max. 150°C Heat Input: Max. 2.0 KJ/mm Shielding Gas : 100% CO <sub>2</sub> Gas Flow rate: 20-25 L/min Wire stick out : 15-20 mm		
Approvals					
ABS					
Size, Packaging and Electrical Operating Data					
Size mm	Kg / Spool		Amperage (A)	Voltage (V)	
1.20	15.0		120 – 280	22 – 30	