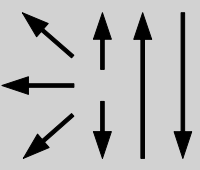


<b>Classification</b>					
AWS A5.22					
E309LT1-1					
<b>Characteristics and typical fields of application</b>					
<p>Avesta FC 309L-T1 is a high-alloy 23Cr 13Ni wire primarily intended for surfacing on low-alloy steels and for dissimilar welds between mild steel and stainless steels. It provides the excellent usability with stable arc, less spattering, good bead appearance, and better slag removal.</p> <p>Avesta FC 309L-T1 is designed for all-round welding and can be used in all positions without cahnging parameter settings.</p>					
<b>Base Materials</b>					
Primarily used when surfacing unalloyed or low-alloy steels and when joining non-molybdenum alloyed stainless and carbon steels.					
<b>Typical analysis of solid wire (wt.-%)</b>					
C	Si	Mn	Cr	Ni	Mo
0.03	0.60	1.50	23.2	12.8	0.02
Ferrite Number ≈ 10 – 15 FN WRC 92					
<b>Mechanical properties of all-weld metal</b>					
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	390	550	35	50	
<b>Operating data</b>					
		<b>Polarity</b> DC+ <p>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</p>			
<b>Approvals</b>					
ABS					
<b>Size, Packaging and Electrical Operating Data</b>					
Size mm	Kg / Spool	Amperage (A)	Voltage (V)		
1.20	15.0	150 – 240	22 – 30		