

Cored Wires Stainless and Heat resistant steels

Fluxinox 309L is an alloyed rutile flux cored wire for joining high-alloyed Cr and Cr-Ni-(Mo) steels with unalloyed steels, as well as for depositing austenitic stainless cladding. The highest operating temperature for dissimilar joints is 300°C. The weld metal is non-scaling up to 850°C. Preheating and interpass temperatures should be calculated according to the base metal used. FLUXINOX 309 L exhibits outstanding, almost spatter-free, welding properties. It produces finely rippled flat and smooth welds, free of undercut into the base metal. Very easy slag removal.

Classification	
AWS	A5.22: E309LT0-4 / E309LT0-1
EN	12073: T 23 12 L R M 3 / T 23 12 L R C 3

Approvals	Grades
DB	
DNV	
GL	
TÜV	
UDT	

see Appendix, Classification Society Approvals, for details pag. 521

Analysis of all-weld metal (Typical values in %)

C	Mn	Si	P	S	Cr	Ni	Mo	Nb	Cu	N	Ferrite
≤ 0.04	1.50	0.60	-	-	24	13	-	-	-	-	12-20

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation A5 (%)	Impact Energy ISO - V (J) - 60 °C	Hardness
As Welded	≥ 320	≥ 520	≥ 30	≥ 32	-

Gas test: Acc. To EN 439: M21(Arcal 21-Atal 6)

Shielding Gas: Acc. To EN 439: M21(Arcal21-Atal6) or C1(Arcal 2)

Materials

A312 TP309S; carbon steel to stainless steels joint

Storage

Keep dry and avoid condensation

Current condition and welding position

DC+		
		
PA	PB	PC

Packaging data: K300 kg. 16

Diameters	1,2				
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