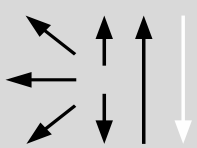


Classification							
AWS A5.4		EN ISO 3581-A			GB/T 983		
E309L-16		E 23 12 L R			E309L-16		
Characteristics and typical fields of application							
23Cr-12Ni stainless steel rutile - coated electrode; with good corrosion resistance below 300 ° C; Electrode designed for dissimilar welding between stainless steel and carbon steel (austenitic / ferrite)							
Base Materials							
Over-alloyed electrode for surfacing unalloyed steel, joint welding non-molybdenum-alloyed stainless steel to unalloyed steel and welding clad material.							
Typical analysis of all weld metal (Wt.-%)							
C	Si	Mn	Cr	Ni	Mo	Cu	N
0.02	0.7	0.80	23.5	12.4	0.05	0.02	0.07
Ferrite Number ≈ 10-15 FN WRC 92							
Mechanical properties of the weld metal							
Heat Treatment	Yield strength	Tensile strength	Elongation	Impact work			
	R _e N/mm ²	R _m N/mm ²	(L ₀ =4d ₀)	ISO-V KV J			
	MPa	MPa	%	+20°C		-46°C	
As Welded	450 (≥ 320)	560 (≥ 510)	40 (≥ 30)	65 (≥ 40)		40 (≥ 32)	
Operating Data							
		Polarity DC (+) / AC		Interpass temperature: Max. 150°C Instruction for Re-drying: Re-dry for 3 h at 250-280°C before using			
Approval							
ABS, CWB, CE							
Size, Packing and Recommended welding parameters							
Size (mm)	Capsule Pack		Vacuum Pack		Amperage (A)		
	Kg / Pack	Kg / Box	Kg / Pack	Kg / Box			
2.50 x 350	5.00	15.00	2.00	16.00	50-80		
3.25 x 350	5.00	15.00	2.00	16.00	80-120		
4.00 x 350	5.00	15.00	2.00	16.00	100-160		
5.00 x 450	5.00	15.00	2.00	16.00	160-220		