

CrInoxTIG 316LSi

Classifications

EN ISO 14343-A W 19 12 3 L Si AWS A5.9 ER316LSi

CrInoxTIG 316LSi is primarily intended for welding the low carbon, molybdenum alloyed, acid resisting 316L austenitic stainless steels of similar composition. It is also suitable for grade 316 material and the Nb or Ti stabilised grades 347 and 321, provided service temperatures for structural work are below 350 °C. The higher silicon content provides a more fluid weld pool which may be preferred for certain welding applications.

Shielding Gas			I1, Ar 99.99%, 6-12 l/n		6-12 l/mir	in Welding (ing Cu	rrent	DC-
Scaling ten	nperat	ure								
Corrosion resistance		ince	Good re e.g. hot	sistanco dilute a	e to gene cids. Goo	eral and od resis	intergration	anular o chlori	corrosio de pittin	n in the more severe environments g corrosion.
Weld metal	chem	istry %	1							FN > 6
	9/ C	0/ C i	%Mp	0/ D	0/ C	0/ C r	0/ NI;	9/ Mo	9/ Cu	Notes :

	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Cu	Notes
Min		0,65	1,0			18,0	11,0	2,5		-
Typical	0,022	0,85	1,82	0,025	0,005	18,3	11,3	2,6	0,1	
Мах	0,030	1,0	2,5	0,03	0,02	20,0	14,0	3,0	0,50	

Mechanical properties

Welding Conditions : As Welded

Typical valu	es			T °C	Typical (J)
Yield Strength, Re	400	MPa	Impact energy,	20	110
Tensile Strength, Rm	585	MPa	CV	-196	40
Elongation A5	40	%			
			-		

Minimum values Yield Strength, Re 320 MPa Tensile Strength, Rm 510 MPa % **Elongation A5** 30

CE	ΤÜV	DB	LR	DNV	BV	ABS	RINA	RMS	NAKS
х	X (1,6 - 3,2mm)	X (1,6 - 3,2mm) Pending		Х					

Available diameters : 1,0 - 3,2mm

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