

## 309 LSi Tig

CATEGORY	GMAW-GTAW Solid wires	
TYPE	Stainless steel filler metal for dissimilar welding between steel and stainless steel and difficult to weld steels	
APPLICATIONS	Buffer layers before hard facing, dissimilar joints between ferritic and austenitic steels and or difficult to weld steels.	
PROPERTIES	High mechanical properties and very good weldability due to a increased silicon content, suitable for operating temperatures up to 300°C.	
CLASSIFICATION	AWS	A 5.9: ER 309 LSi
	EN ISO	14343-A: W23 12 LSi 14343-B: SS309LSi
	DIN: W.Nr.	1.4332
	DIN	8556: SG X2CrNi 24 12
SUITABLE FOR	Buffer layers before hard facing, dissimilar joints between ferritic and austenitic steels and or difficult to weld steels such as: 42CrMo4, C45, 42MnV7, tool steels etc.	
APPROVALS	TUV (12394.00), CE approved	
WELDING POSITIONS:		

### WELD METAL ANALYSIS

C	Cr	Ni	Mo	Mn	Si	P	S	Cu
<0.03	23.0-25.0	12.0-14.0	<0.75	1.0-2.5	0.65-1.0	<0.03	<0.03	<0.75

### MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ (N/mm <sup>2</sup> )	Rm (N/mm <sup>2</sup> )	A5 (%)	Impact Energy (J) ISO-V			Hardness HRc / HV
				+20°C	-40°C	-110°C	
AW	440	600	37	160		90	

AW: as welded

### WELDING PARAMETERS / PACKING

Welding Parameters			Packing (kg)	
D (mm)	Current (A) DC-		single	master
1,6 x 1000	50-80		5	25
2.0 x 1000	70-110		5	25
2,4 x 1000	110-180		5	25

REDRYING TEMPERATURE not required

GAS ACC. EN ISO 14175: I1