

309LSi

Comparable specifications	ASME SFA A 5.9: ER309LSi / ER309Si EN ISO 14343-A: 23 12 L Si Werkstoff Nr.: 1.4332			
Description and applications* * Illustrative, not-exhaustive list	possibilities of intergranular carbide resistance to intergranular corrosion niobium or titanium. The high silicon co metal in the gas metal arc welding proce			
	 and corrosion resistance. High ferrite levent This grade may be used for: joining and overlay of stainless steels castings, and for joining of 3Cr12; usage in contact with fused salts and ashes; applications in industrial furnace and exchangers, fused salt treatment instation overlay by submerged arc; 	of similar composition, such as AISI 309 in some cases of contamination by fuel boiler parts, annealing chambers, heat llations; rc welding of plates and cast materials		
Weldable base materials*	All 300 series austenitic stainless steel,	3Cr12, mild steels (cladding)		
* Illustrative, not-exhaustive list				
All-weld metal mech. properties*	Tensile strength (Rm): ≥ 510 N/mm ²	Yield Strength (Rp₀.₂): ≥ 320 N/mm²		
* For reference only values	Elongation: ≥ 25%	Charpy-V Impact (R.T.): ≥ 50 J		

Chemical composition*	С	Mn	Si	S	Р	Ni	Cr	Мо	Cu
* For reference only values	max	1.00	0.65	max	max	12.00	23.00	max	max
	0.03	2.50	1.00	0.020	0.030	14.00	25.00	0.50	0.50

Standard packaging data*

Welding process	Product type	Ø mm (inches)	Packing type	Weight kg (lbs)	Length mm (inches)
GMAW **	filler wire	0.80 - 1.20 (0.030 - 0.047)	spools BS300 / D300	15 (33)	n.a.
GTAW **	filler rod	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)

* Other sizes and packing types are available upon request

** GMAW: gas metal arc welding; GTAW: gas tungsten arc welding

Marking

Each filler rod for GTAW welding is durably marked with an identification traceable to the unique product type. Welding filler materials wound on spools or in coils are durably marked on the coil or spool with an identification traceable to the unique product type.

The outside of each unit package is suitably labelled with at minimum the following data: grade, diameter, heat, lot no., classifications.

CE marking type-testing performed and available.

Customized labels are available upon request.

Type approvals	Canadian Welding Bureau Cert. nr. NOV309LS (GMAW / GTAW)				
	DB Zulassung nr. 43097.07 (GMAW / GTAW)				
	TUV Nord Kennblatt nr. 06331 (GMAW) TUV Nord Kennblatt nr. 06332 (GTAW)				
Lot classification	All our productions fulfil the Class S3 requirements acc. to EN ISO 14344.				