

347S96 TIG

TOP FEATURES

- Used to weld titanium and niobium stabilised 18/8 stainless steel types 321 and 347.
- Also suitable for unstabilized grades such as 304/304L.
- Service temperatures are typically -100°C to about 400°C.

TYPICAL APPLICATIONS

- Food, brewery, pharmaceutical equipment
- Architectural and general fabrication
- Nuclear engineering

CLASSIFICATION

AWS A5.9M	ER347
EN ISO 14343-A	W 19 9 Nb
EN ISO 14343-B	SS347

SHIELDING GASES (ACC. EN ISO 14175)

I1	Inert gas Ar (100%)
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CHEMICAL COMPOSITION (WEIGHT %), TYPICAL

	C	Mn	Si	S	P	Cr	Ni	Mo	Nb	Cu	FN
Min.		1.0	0.30			19.0	9.0		10xC		4
Max.	0.08	2.5	0.65	0.020	0.030	21.0	11.0	0.3	1.0	0.3	12
Typical	< 0.04	1.5	0.4	0.005	0.02	19.5	9.7	0.2	0.6	0.1	8

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

As welded		Typical
Tensile strength	(MPa)	660
0.2% Proof strength	(MPa)	450
Elongation (%)	4d	42
	5d	40
Impact ISO-V (J)	20°C	230
	- 50°C	150
	- 196°C	35
Hardness, cap/mid	(HV)	220/240

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.6	PE Tube	5.0	T347S96-16
2.4	PE Tube	5.0	T347S96-24

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application.

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.