

316S92 TIG

TOP FEATURES

- High resistance to intergranular corrosion and general corrosion conditions.
- Ferrite number between 3-10

CLASSIFICATION

AWS A5.9M	ER316L
EN ISO 14343-A	W 19 12 3 L
EN ISO 14343-B	SS316L

SHIELDING GASES (ACC. EN ISO 14175)

I1	Inert gas Ar (100%)
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APPROVALS

LR	TÜV
+	+

CHEMICAL COMPOSITION (WEIGHT %), WIRE

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	FN
Min.		1.0	0.30			18.0	11.0	2.5		3
Max.	0.03	2.0	0.65	0.020	0.030	20.0	14.0	3.0	0.3	10
Typical	0.01	1.4	0.5	0.01	0.015	18.5	12.8	2.6	0.15	6

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

As welded	Typical	Min.	Typical
Tensile strength (MPa)		510	605
0.2% Proof strength (MPa)		320	465
Elongation (%) 4d		30	35
5d		30	33
Impact ISO-V (J) -130°C			> 100
-196°C			> 60
Hardness, cap/mid (HV)			200/220

* See data sheet B-38 for as-welded cryogenic applications at -196°C.

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.0	PE Tube	5.0	T316S92-10
1.2	PE Tube	5.0	T316S92-12
1.6	PE Tube	5.0	T316S92-16
2.0	PE Tube	5.0	T316S92-20
2.4	PE Tube	5.0	T316S92-24
3.2	PE Tube	5.0	T316S92-32

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.