

ER316LCF TIG

TOP FEATURES

- Controlled ferrite grade for impact at -196°C
- Available in PE tube

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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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.	0.025	2.0	0.65	0.020	0.030	20.0	14.0	3.0	0.3	8
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	Min.	Typical
Tensile strength (MPa)	510	605
0.2% Proof strength (MPa)	320	465
Elongation (%) 4d	30	50
5d	25	45
Impact ISO-V (J) -130°C		> 100
-196°C		> 60
Lateral expansion* (mm) -196°C	0.38	1.0

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.6	PE Tube	2.5	TER316LCF-16
2.0	PE Tube	2.5	TER316LCF-20
2.4	PE Tube	5.0	TER316LCF-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.