

SuperCore™ 316L

TOP FEATURES

- Unparalleled consistency in weldability and mechanical properties

CLASSIFICATION

AWS A5.22 E316LT0-1/4
 EN ISO 17633-A T 19 12 3 L R C/M 3
 EN ISO 17633-B TS316L-F C1/M21 0

CURRENT TYPE

DC+

SHIELDING GASES (ACC. EN ISO 14175)

M21 Mixed gas Ar+ 15-25% CO₂
 C1 Active gas 100%
 Flow rate 20-25 l/min

Proprietary gases may be used but argon should not exceed 85%.

APPROVALS

TÜV

+

CHEMICAL COMPOSITION (WEIGHT %), WELD METAL

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	FN
Min.		0.5	0.2			17.0	11.0	2.5		3
Max.	0.04	2.0	1.0	0.025	0.030	20.0	13.0	3.0	0.3	12
Typical	0.03	1.3	0.5	0.02	0.02	18	12.5	2.7	0.1	6

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

As welded	Min.	Typical
Tensile strength (MPa)	520	560
0.2% Proof strength (MPa)	320	420
Elongation (%) 4d	30	42
5d	25	41
Reduction of area (%)		50
Impact ISO-V (J) +20°C		57
-110°C		40
Hardness, cap/mid (HV)		200/210

PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.2	SPOOL (S300)	15.0	SC316L-12

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.