

# Limarosta® 316L

## TOP FEATURES

- Molybdenum level min. 2.7%
- Mirror like bead appearance.
- Self releasing slag.
- Good side wall fusion, no undercut.
- High resistance to porosity.

## CLASSIFICATION

AWS A5.4 E316L-17  
EN ISO 3581-A E 19 12 3 L R 12

## CURRENT TYPE

AC/DC(+/-)

## WELDING POSITIONS

All position, except vertical down

## APPROVALS

LR	DNV	TÜV	DB
+	+	+	+

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, ALL WELD METAL

C	Mn	Si	Cr	Ni	Mo	FN (acc. WRC 1992)
0.02	0.8	1.0	18.0	11.5	2.8	4-10

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Condition*	0.2% Proof strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)		
					+20°C	-20°C	-105°C
Required: AWS A5.4		not specified	min. 490	min. 30	not specified		
EN ISO		min. 320	min. 510	min. 25	not specified		
Typical values	AW	450	580	40	70	60	40

AW = As welded

## OUTPUT RANGE

Diameter x Length (mm)	Current range (A)
1.5 x 250	20-40
2.0 x 300	35-50
2.5 x 350	45-80
3.2 x 350	80-115
4.0 x 450	100-155
5.0 x 450	150-220

## PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Electrodes/pack	Net weight/pack (kg)	Item number
2.0 x 300	CBOH	150	1.7	557435-1
2.5 x 350	CBOH	90	2.0	557442-1
	VPMD	90	2.0	539912-2
3.2 x 350	CBOX	120	4.2	557466-1
4.0 x 450	CBOX	81	5.5	557497-1
5.0 x 450	CBOX	52	5.6	557503-1

### 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](http://www.lincolnelectric.eu) for any updated information.