

# SAFINOX R 316L

## TOP FEATURES

- Suitable for use with either AC [minimum OCV 50V] or DC positive.
- Easy arc striking and restriking.
- Efficiency 100%.

## CLASSIFICATION

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

## CURRENT TYPE

AC, DC+

## WELDING POSITIONS

All positions

## APPROVALS

ABS	LR	BV	DNV	RINA	TÜV	DB	CE
+	+	+	+	+	+	+	+

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

C	Mn	Si	P	S	Cr	Ni	Mo	Ferrite
0.035	0.9	0.8	≤0.025	≤0.025	19.0	12.0	2.6	5-10

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Required	Condition*	0.2% Proof strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) +20°C
AWS A5.4	AW	not specified	≥490	≥30	not specified
EN ISO 3581-A	AW	≥320	≥510	≥25	not specified
Typical values	AW	≥350	≥510	≥30	≥50

\* AW: As-welded

## OUTPUT RANGE

Diameter x Length (mm)	Current range (A)
1.6 x 300	20-40
2.0 x 300	30-60
2.5 x 300	55-80
3.2 x 350	70-110
4.0 x 350	120-140

## PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Electrodes/pack	Net weight/pack (kg)	Item number
2.0 x 300	VPMD	150	1.7	W100288796
	CBOX	323	3.6	W100288791
2.5 x 350	VPMD	90	2.0	W100288797
	CBOX	187	4.1	W100288792
3.2 x 350	VPMD	55	1.9	W100288798
	CBOX	120	4.2	W100288793
4.0 x 450	CBOX	81	5.5	W100288794

### 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.  
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