

# SAFER NF 510S

## TOP FEATURES

- Very low hydrogen content after re-drying.
- Easy slag removal.
- Excellent mechanical properties.

## CLASSIFICATION

AWS A5.1 E7018-1 H4  
EN ISO 2560-A E 42 5 B 42 H5

## CURRENT TYPE

DC+

## WELDING POSITIONS

All position, except vertical down

## APPROVALS

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

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

C	Mn	Si	P	S
0.07	1.1	0.4	≤0.020	≤0.020

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Required	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)		
					-30°C	-46°C	-50°C
AWS A5.1	AW	≥400	≥490	≥22	≥27	≥27	not specified
EN ISO 2560-A	AW	≥420	500-640	≥20	not specified	not specified	≥47
Typical values	AW	≥430	510-640	≥22	≥27	≥27	≥50

\* AW: As-welded

## OUTPUT RANGE

Diameter x Length (mm)	Current range (A)
2.5 x 300	65-90
2.5 x 350	65-90
3.2 x 450	100-140
4.0 x 450	140-190

## PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Electrodes/pack	Net weight/pack (kg)	Item number
2.5 x 300	CBOX	185	3.5	W000380889
2.5 x 350	CBOX	185	4.1	W000279875
3.2 x 450	CBOX	120	5.5	W000279877, W000288332
4.0 x 450	CBOX	85	5.8	W000279878

## 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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