

# Universalis®

## TOP FEATURES

- Self releasing slag
- Very smooth appearance
- Smaller sizes (2.0 & 2.5 mm) most versatile for thin plate material

## CLASSIFICATION

AWS A5.1 E 6013  
EN ISO 2560-A E 42 0 RR 12

## CURRENT TYPE

AC/DC-

## WELDING POSITIONS

All position, except vertical down

## APPROVALS

ABS	LR	BV	DNV	TÜV
+	+	+	+	+

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

C	Mn	Si
0.08	0.6	0.45

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) 0°C
Required: AWS A5.1		min. 330	min. 430	min. 17	not specified
EN ISO		min. 420	500-640	min. 20	min. 47
Typical values	AW	480	560	26	50

AW = As welded

## OUTPUT RANGE

Diameter x Length (mm)	Current range (A)
2.5x350	65-90
3.2x350	100-140
3.2x450	100-140
4.0x450	150-195

## PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Electrodes/pack	Net weight/pack (kg)	Item number
2.5x350	CBOH	105	2.1	588699-1
3.2x350	CBOX	125	4.3	588700-1
3.2x450	CBOX	118	5.7	588701-1
4.0x450	CBOX	78	5.6	588702-1

### 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.  
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