

Kryo® 3

TOP FEATURES

- 115 - 120% recovery
- Excellent impact toughness down to -80°C
- Good CTOD at -10°C
- Extremely low hydrogen content

CLASSIFICATION

AWS A5.5 E8018-C1-H4
EN ISO 2560-A E 50 6 Mn1Ni B 32 H5

CURRENT TYPE

AC / DC (+/-)

WELDING POSITIONS

All position, except vertical down

APPROVALS

LR	TÜV
+	+

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

C	Mn	Si	P	S	Ni	HDM
0.05	0.7	0.3	0.015	0.01	2.5	2 ml/100 g

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Condition*	0.2% Proof strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)	
					-60°C	-80°C
Required: AWS A5.5	SR*	min. 460	min. 550	min. 19	min. 27	
EN ISO		min. 460	530-680	min. 20		min. 47
Typical values	AW	520	600	26	120	60
	SR:620°C/1h	500	590	29	90	

AW = As welded; SR = Stress relieved

CTOD value at -10°C > 0.25 mm

SR* = 605±14°C/1h

OUTPUT RANGE

Diameter x Length (mm)	Current range (A)
2.5x350	55-80
3.2x350	80-140
3.2x450	80-140
4.0x350	120-170
4.0x450	120-170
5.0x450	180-240

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Pieces / unit	Weight (kg)	Item number
3.2x350	SRP	50	1.9	524604-1
3.2x450	SRP	50	2.4	524543-1
4.0x350	SRP	28	1.5	524574-1

Kryo® 3-EN-01/07/22

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.