

8018-B2L (Reclassified as 7018-B2L by AWS) Low-Alloy

Steel Electrode

U.S. ALLOY CO. dba Washington Alloy 7010-G Reames Rd. Charlotte, NC 28216 www.weldingwire.com



## **ALLOY DESCRIPTION AND APPLICATION:**

USA7018-B2L (formerly 8018-B2L) is Cr-Mo covered electrodes commonly used in maintenance and fabrication of 1/2 % Mo and 1/2 -1.25 % Cr where base metals in the power / boiler piping and equipment may be found. The low hydrogen potassium, iron powder covering has high deposition with good smooth arc, low spatter and easy slag removal. Typical base metals in the 75-85,000 psi range may be welded with this product. The composition ranges were not changed from previous revisions of this classification, only the strength designaion.

## **TYPICAL WELDING PROCEDURES: DCEP or AC - OPTIMUM IN BOLD**

	Diameter	3/32"	1/8"	5/32"	3/16"	1/4"	
	Length	14"	14"	14"	14"	18"	
Amps	Flat	70 <b>-90-</b> 100	90 <b>-140</b> -160	130- <b>170</b> -220	190- <b>245</b> -290	285 <b>-315</b> -400	
Vertical up & Overhead		60- <b>85</b> -90	80- <b>110</b> -120	110- <b>145</b> -170			
Arc Length = Very short arc, Flat use 15° angle from 90°, Vertical up & Overhead use weaving techniques within puddle							

Procedures may vary with change in position, base metals, filler metals, equipment and other changes. Preheat and postheat recommended

## **TYPICAL WELD METAL CHEMISTRY (%) AND WELD METAL PROPERTIES;**

	AWS Spec.
Carbon	0.05 max
Manganese	0.90 max
Silicon	0.80 max
Phosphorus	0.030 max.
Sulfur	0.030 max.
Chromium	1.00-1.50
Molybdenum	0.40-0.65

**AWS Spec** Tensile Strength (psi) 75,000 min. Yield Strength (psi) Elongation in 2"

57,000 19 % min.

AVAILABLE SIZES: TEX018-B2L = 10 # containers of 3/32, 5/32, 3/16Other sizes may be available - please inquire

SPECIFICATIONS; ANSI/AWS A5.5 E7018-B2L ASME SFA A5.5 E7018-B2L (Formerly AWS A 5.5, 1981 Class E8018-B2L)

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