

# Select 91-K2

Low Alloy / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

## FEATURES

- Intended for use with 100% CO<sub>2</sub> shielding gas with a stable, small to medium droplet arc transfer that produces low spatter.
- Slag removes easily with no residual slag, and the bead is finely rippled with good geometry.
- Intended for single and multiple pass welding of structural steel and fabrications utilizing high strength, low alloy steels, such as HY-80, ASTM A514, A633, and A710.
- Typical applications include low temperature storage tanks, offshore drilling rigs, shipbuilding, and construction machinery.

## CONFORMANCES

<b>AWS A5.29</b>	E90T1-K2C-H8
<b>AWS D1.8</b>	5/64 in (2.0 mm), (100% CO <sub>2</sub> ) E90T1-K2C-H8

## DIAMETERS (in [mm])

5/64 (2.0)

## POSITIONS



## SHIELDING GAS

100% CO<sub>2</sub>

Flow Rate: 40 - 50 CFM

## POLARITY

Direct Current Electrode Positive (DCEP)

## TYPICAL WELD DEPOSIT CHEMISTRY [WT%]

Shielding Gas	C	Cr	Mn	Mo	Ni	P	S	Si	V
100%CO <sub>2</sub>	0.05	0.03	1.54	0.05	1.92	0.006	0.008	0.20	0.02

## TYPICAL MECHANICAL PROPERTIES

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ 0°F (-20°C) ft-lb (J)
100%CO <sub>2</sub>	97 (669)	84 (579)	25	As-Welded	-	91 (123)

## RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
5/64 (2.0 mm)	100% CO <sub>2</sub>	Flat & Horizontal	145 (3.7)	280	25	1 (25)
		Flat & Horizontal	190 (4.8)	320	27	1 - 1 1/4 (25 - 32)
		Flat & Horizontal	230 (5.8)	365	29	1 - 1 1/4 (25 - 32)

\* WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance



Revision: 9/20/2022

Notice: Be sure to follow all your employers safety practices, policies and procedures when using this product. Refer to CSA W117.2 and ANSI Z49.1 Safety in Welding, Cutting and Allied Processes for further information and the manufactures SDS sheet. The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

600 Enterprise Drive, P.O. Box 259, Fort Loramie, Ohio 45845-0259 • 800-341-5215 • [www.Select-Arc.com](http://www.Select-Arc.com)

## **PACKAGING (lbs (kgs))**

33 (15) Spools, 60 (27.2) Coils, 500 (226.8) Round Drum, 800 (362.9) Hex Drum, 900 (408.2) Hex Drum

*\*Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.*

## **STORAGE AND HANDLING**

All products should be stored in original packaging, in dry conditions and handled with care. For more information refer to our website.



Revision: 9/20/2022

Notice: Be sure to follow all your employers safety practices, policies and procedures when using this product. Refer to CSA W117.2 and ANSI Z49.1 Safety in Welding, Cutting and Allied Processes for further information and the manufactures SDS sheet. The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

**600 Enterprise Drive, P.O. Box 259, Fort Loramie, Ohio 45845-0259 • 800-341-5215 • [www.Select-Arc.com](http://www.Select-Arc.com)**