

Select 125-K4M

Carbon Steel / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

FEATURES

- Designed for welding of low alloy steels, such as ASTM A514 or HY-100. Also well suited for structural welding and general fabrication.
- Basic slag system allows for excellent mechanical properties.
- In contrast with T-1 slag systems, this electrode has a globular transfer. However, the welding performance is improved over usual T-5 slag systems, featuring excellent slag release and bead geometry.
- Typical applications include mining machinery, cranes, and construction equipment.
- Designed for 75-80% Ar / balance CO₂ shielding gas. If you wish to use 100% CO₂, Select 125-K4C is the preferred choice

CONFORMANCES

AWS A5.29

E120T5-K4M

DIAMETERS (in [mm])

1/16 (1.6), 3/32 (2.4)

POSITIONS



SHIELDING GAS

75-80% Ar/Balance CO₂

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
75%Ar / 25%CO ₂	0.08	0.43	1.98	0.39	2.51	0.006	0.010	0.62	0.004

TYPICAL MECHANICAL PROPERTIES

Shielding Gas	Tensile Strength ksi (MPa)	Yield Strength ksi (MPa)	Elongation (%)	Weld Condition	PWHT Temp	CVN @ -60°F (-50°C) ft-lb (J)
75%Ar / 25%CO ₂	134 (924)	112 (772)	19	As-Welded	-	39 (53)



Revision: 8/21/2023

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.

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RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
1/16 (1.6 mm)	75% Ar/25% CO2	Flat & Horizontal	250 (6.4)	265	24	3/4 (19)
		Flat & Horizontal	280 (7.1)	290	26	3/4 - 1 (19 - 25)
		Flat & Horizontal	315 (8.0)	315	28	3/4 - 1 (19 - 25)
3/32 (2.4 mm)	75% Ar/25% CO2	Flat & Horizontal	120 (3.0)	275	24	1 1/4 (32)
		Flat & Horizontal	150 (3.8)	335	26	1 1/4 - 1 1/2 (32 - 38)
		Flat & Horizontal	165 (4.2)	400	28	1 1/4 - 1 1/2 (32 - 38)

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

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.



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