Select 101-K3M

Low Alloy / Gas Shielded / Flux Cored

PRODUCT DATA SHEET

FEATURES

- Spray-like transfer with low spatter and good welder appeal
- Fast freezing slag facilitates welding in all positions
- Ideal for welding of HY-80, certain grades or A514, and HSLA-80 steels.
- Typical applications for these steels include crane fabrication, trailer construction, and other structural applications involving higher strength materials.

CONFORMANCES

AWS A5.29

E101T1-K3M-H8 E101T1-K3M-JH8

DIAMETERS (in (mm))

0.045 (1.2), 0.052 (1.3), 1/16 (1.6)

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	С	Cr	Mn	Мо	Ni	P	S	Si	V
75%Ar / 25%CO2	0.06	0.04	1.47	0.37	1.75	0.007	0.009	0.37	0.02

TYPICAL MECHANICAL PROPERTIES

	Shielding Gas	Tensile Yield Elongation Strength Strength (%) C		Weld Condition	PWHT Temp	CVN @ 0°F (-20°C) ft-lb (J)	CVN @ -20°F (-30°C) ft-lb (J)	
_	75%Ar / 25%CO2	114 (783)	105 (723)	24	As-Welded	-	53 (72)	45 (61)



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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.

RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
	75% Ar/25% CO2	All Positions	200 (5.1)	145	23	1/2 - 5/8 (13 - 16)
		All Positions	235 (6.0)	160	24	1/2 - 5/8 (13 - 16)
0.045 (1.2 mm)		All Positions	300 (7.6)	185	26	1/2 - 5/8 (13 - 16)
		All Positions	375 (9.5)	215	27	5/8 - 3/4 (16 - 19)
		All Positions	440 (11.2)	235	29	5/8 - 3/4 (16 - 19)
	75% Ar/25% CO2	All Positions	170 (4.3)	155	23	5/8 - 3/4 (16 - 19)
		All Positions	200 (5.1)	175	24	5/8 - 3/4 (16 - 19)
0.052 (1.3 mm)		All Positions	250 (6.4)	225	26	5/8 - 3/4 (16 - 19)
		All Positions	310 (7.9)	250	27	3/4 - 1 (19 - 25)
		All Positions	395 (10.0)	280	29	3/4 - 1 (19 - 25)
		All Positions	125 (3.2)	165	23	5/8 - 3/4 (16 - 19)
1/16 (1.6 mm)	75% Ar/25% CO2	All Positions	150 (3.8)	195	24	5/8 - 3/4 (16 - 19)
		All Positions	185 (4.7)	225	26	5/8 - 3/4 (16 - 19)
		All Positions	265 (6.7)	280	27	3/4 - 1 (19 - 25)
		All Positions	325 (8.3)	320	29	3/4 - 1 (19 - 25)

^{*} 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

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