

Stainless Steel / Gas Shielded / Metal Cored

PRODUCT DATA SHEET

FEATURES

- Increased level of columbium (Cb), also known as niobium (Nb), to prevent sensitization.
- Enhanced weldability on components with excessive surface contaminants/lubes.
- Metal cored construction inherently provides better welding performance compared to solid wires.
- Designed to weld exhaust system components of similar composition, ~12 wt% chromium (Cr).

CONFORMANCES

AWS A5.22

EC409Nb

ASME SFA 5.22

EC409Nb

DIAMETERS (in (mm))

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

POSITIONS



SHIELDING GAS

Ar + 0.5-5% CO2. Ar + 0.5-3% O2 Flow Rate: 40 - 50 CFH

POLARITY

Direct Current Electrode Positive (DCEP)

TYPICAL WELD DEPOSIT CHEMISTRY (WT%)

Shielding Gas	С	Cr	Cu	Mn	Мо	Nb	Ni	P	S	Si
Argon	0.02	11.6	0.03	0.57	<0.01	0.61	0.02	0.006	0.008	0.51



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RECOMMENDED WELDING PARAMETERS **

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.035 (0.9 mm)	98% Ar/2% O2	Flat & Horizontal	315 (8.0)	150	20	1/2 (13)
0.045 (1.2 mm)	98% Ar/2% O2	Flat & Horizontal	280 (7.1)	200	20	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	350 (8.9)	220	21	1/2 - 5/8 (13 - 16)
		Flat & Horizontal	400 (10.2)	250	23	5/8 (16)
		Flat & Horizontal	475 (12.1)	275	25	5/8 (16)
0.052 (1.3 mm)	98% Ar/2% O2	Flat & Horizontal	225 (5.7)	215	20	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	350 (8.9)	280	23	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	425 (10.8)	300	25	3/4 (19)
1/16 (1.6 mm)	98% Ar/2% O2	Flat & Horizontal	225 (5.7)	260	21	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	265 (6.7)	285	22	5/8 - 3/4 (16 - 19)
		Flat & Horizontal	300 (7.6)	310	23	3/4 - 1 (19 - 25)
		Flat & Horizontal	350 (8.9)	335	25	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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^{**}The parameters listed are recommended starting points of operation and the ranges for amperage, wfs, and voltage could be extended based on fitness for application. For products with "all-position" capability, as determined and listed in classification, the position recommendation can be determined based on operator skill and material thickness and isn't limited to the listing.

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