

Select 439Ti

Stainless Steel / Gas Shielded / Metal Cored

PRODUCT DATA SHEET

FEATURES

- Increased titanium (Ti) content, compared to solid wire of similar classification, promotes an improved resistance to sensitization and enhanced arc stability.
- Specially formulated to promote a fine-grained ferritic microstructure.
- Metal cored construction provides better welding performance compared to solid wires.
- Designed to weld exhaust system components of similar composition, ~18 wt% chromium (Cr), with increased oxidation resistance at high operating temperatures.

CONFORMANCES

AWS A5.22	EC439
ASME SFA 5.22	EC439

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	C	Cr	Cu	Mn	Mo	Ni	P	S	Si	Ti
Argon	0.01	18.08	0.03	0.38	<0.01	0.03	0.017	0.012	0.70	0.66



Revision: 1/17/2025

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)
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	290 (7.4)	250	21	3/4 (19)
		Flat & Horizontal	350 (8.9)	280	23	3/4 (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

**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.

APPROVALS

Agency	Approval	Shielding Gas	Diameter(s) in (mm)
Chrysler MS-90024/04	W404	N/A	0.035 (0.9) - 1/8 (3.2)

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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