

Stainless Steel / Gas Shielded / Solid

PRODUCT DATA SHEET

FEATURES

- Nominally ~18 wt% Cr with columbium (Cb), also known as niobium (Nb), as the stabilizing element to prevent weld metal sensitization.
- Nb stabilization promotes enhanced weldability on components where cleanliness can be an issue (i.e. excessive debris, oil, etc.).
- Unique manufacturing techniques provide enhanced arc stability and stable feeding.
- Applications for this alloy type include ferritic stainless steel exhaust system components, converters, mufflers, and tubing
 of similar composition where heat and corrosion resistance are necessary.

DIAMETERS (in (mm))

0.035 (0.9), 0.040 (1.0), 0.045 (1.2)

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 WIRE CHEMISTRY (WT%)

| Shielding Gas | С | Cr | Cu | Mn | Мо | Nb | Ni | P | S | Si |
|---------------|------|-------|------|------|------|------|------|-------|-------|------|
| Argon | 0.02 | 18.20 | 0.36 | 0.40 | 0.26 | 0.45 | 0.28 | 0.018 | 0.003 | 0.45 |



RECOMMENDED WELDING PARAMETERS **

| Diameter in (mm) | Shielding Gas | Position | WFS* in/min (m/min) | Amps | Volts | CTWD* in (mm) |
|---------------------|----------------|-------------------|------------------------|------|-------|---------------------|
| 0.035 (0.9 mm) | | Flat & Horizontal | 315 (8.0) | 135 | 20 | 1/2 (13) |
| | 98% Ar/2% O2 | Flat & Horizontal | 500 (12.7) | 170 | 22 | 1/2 (13) |
| | | Flat & Horizontal | 650 (16.5) | 220 | 23 | 5/8 - 3/4 (16 - 19) |
| | | Flat & Horizontal | 780 (19.8) | 250 | 25 | 5/8 - 3/4 (16 - 19) |
| 0.040 (1.0 mm) | 98% Ar/2% O2 | Flat & Horizontal | 295 (7.5) | 190 | 20 | 1/2 - 5/8 (13 - 16) |
| | | Flat & Horizontal | 375 (9.5) | 220 | 21 | 1/2 - 5/8 (13 - 16) |
| | | Flat & Horizontal | 525 (13.3) | 255 | 23 | 5/8 - 3/4 (16 - 19) |
| | | Flat & Horizontal | 630 (16.0) | 280 | 25 | 5/8 - 3/4 (16 - 19) |
| 0.045 (1.2 mm) | 000/ 4-/00/ 00 | Flat & Horizontal | 280 (7.1) | 225 | 20 | 5/8 (16) |
| | | Flat & Horizontal | 350 (8.9) | 245 | 21 | 5/8 (16) |
| | 98% Ar/2% O2 | Flat & Horizontal | 400 (10.2) | 265 | 23 | 5/8 - 3/4 (16 - 19) |
| | | Flat & Horizontal | 475 (12.1) | 300 | 25 | 5/8 - 3/4 (16 - 19) |

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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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.

^{*} 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 "allposition" 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.