Select 85-Ni3

Low Alloy / Gas Shielded / Flux Cored

FEATURES

- Features a basic slag system capable of producing low oxygen welds with excellent mechanical properties at very low temperatures (-100 F)
- Globular bead transfer and slightly convex beads, typical of basic slag systems
- Applications include shipbuilding, and tanks used for gas storage

DIAMETERS (in (mm))

0.045 (), 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 | С | Mn | Ni | Р | S | Si |
|----------------|------|------|------|-------|-------|------|
| 75%Ar / 25%CO2 | 0.06 | 1.45 | 3.48 | 0.004 | 0.011 | 0.19 |

TYPICAL MECHANICAL PROPERTIES

| Shielding Gas | Tensile Strength ksi (MPa) | Yield Strength ksi (MPa) | Elongation (%) | Weld Condition | PWHT Temp | CVN @ -100°F (-73°C) ft-lb (J) |
|----------------|----------------------------------|--------------------------------|-------------------|-------------------|----------------|--------------------------------------|
| 75%Ar / 25%CO2 | 90 (621) | 75 (517) | 23 | PWHT | 1150F for 1 hr | 38 (52) |



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.

AWS A5.29

E80T5-Ni3M-H4

PRODUCT DATA SHEET

600 Enterprise Drive, P.O. Box 259, Fort Loramie, Ohio 45845-0259 • 877-869-4009 • www.Select-SAl.com

| Diameter in (mm) | Shielding Gas | Position | WFS* in/min (m/min) | Amps | Volts | CTWD* in (mm) |
|---------------------|----------------|-------------------|------------------------|------|-------|-------------------------|
| 0.045 (1.2 mm) 7 | | Flat & Horizontal | 275 (7.0) | 160 | 24 | 5/8 (16) |
| | 75% Ar/25% CO2 | Flat & Horizontal | 350 (8.9) | 190 | 26 | 5/8 - 3/4 (16 - 19) |
| | | Flat & Horizontal | 435 (11.0) | 220 | 28 | 5/8 - 3/4 (16 - 19) |
| 1/16 (1.6 mm) 75 | | Flat & Horizontal | 250 (6.4) | 265 | 24 | 3/4 (19) |
| | 75% Ar/25% CO2 | 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) | | Flat & Horizontal | 145 (3.7) | 320 | 24 | 1 1/4 (32) |
| | 75% Ar/25% CO2 | Flat & Horizontal | 160 (4.1) | 345 | 26 | 1 1/4 - 1 1/2 (32 - 38) |
| | | Flat & Horizontal | 170 (4.3) | 370 | 28 | 1 1/4 - 1 1/2 (32 - 38) |

RECOMMENDED WELDING PARAMETERS

* 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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