FabCOR® 702



AWS A5. 18: E70C-3C

WELDING POSITIONS:



FEATURES:

Metal-cored electrode provides higher deposition rates than solid wire

- · Specially formulated for CO2 shielding gas
- · Slag-free welds

BENEFITS:

- · Helps increase travel speeds and productivity
- Helps reduce shielding gas cost, suitable for use with high-penetration "buried-arc" transfer
- Significantly reduces clean-up time compared to flux-cored arc welding

APPLICATIONS:

- · Single or multi-pass welding
- · General fabrication
- Structural fabrication
- Storage vessels
- · Heavy equipment
- · Railcar fabrication

WIRE TYPE: Gas-shielded, metal-powder, metal-cored wire

SHIELDING GAS: 100% Carbon Dioxide (CO₂), 35-50 cfh (17-24 l/min)

TYPE OF CURRENT: Direct Current Electrode Positive (DCEP) STANDARD DIAMETERS: 1/16" (1.6 mm), 7/64" (2.8 mm)

RE-DRYING: Not recommended

STORAGE: Product should be stored in a dry, enclosed environment, and in its original packaging

TYPICAL WELD METAL CHEMISTRY* (Chem Pad):

Weld Metal Analysis (%)	100% CO ₂	AWS Spec
Carbon (C)	0.08	0.12
Manganese (Mn)	1.45	1.75
Silicon (Si)	0.63	0.90
Phosphorus (P)	0.006	0.03
Sulphur (S)	0.025	0.03

Note: AWS specification single values are maximums.

TYPICAL MECHANICAL PROPERTIES* (As Welded):

Mechanical Tests	100% CO ₂	AWS Spec
Tensile Strength	93,000 psi (641 MPa)	70,000 psi (480 MPa) Minimum
Yield Strength	78,000 psi (538 MPa)	58,000 psi (400 MPa) Minimum
Elongation % in 2" (50 mm)	23%	22% Minimum

TYPICAL CHARPY V-NOTCH IMPACT VALUES* (As Welded):

CVN Temperatures	100% CO ₂	AWS Spec
Avg. at 0°F (-20°C)	35 ft•lbs (47 Joules)	20 ft•lbs (27 Joules) Minimum

^{*}The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and Hobart Brothers Company expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and tested in accordance with the AWS A5.18 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers Company.

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Diameter		Weld Position	Amps	Volts	Wire Feed Speed		Deposition Rate		Contact Tip to Work Distance	
Inches	(mm)				in/min	(m/min)	lbs/hr	(kg/hr)	Inches	(mm)
1/16 1/16 1/16	(1.6) (1.6) (1.6)	Flat & Horizontal Flat & Horizontal Flat & Horizontal	300 415 460	30 33 37	240 400 470	(6.1) (10.2) (11.9)	8.7 16.6 19.5	(3.9) (7.5) (8.8)	1 1 1	(25) (25) (25)

- Maintaining a proper welding procedure including pre-heat and interpass temperatures may be critical depending on the type and thickness of steel being welded.
- See Above: This information was determined by welding using 100% Carbon Dioxide (CO₂) shielding gas with a flow rate between 35-50 cfh (17-24 l/min).

STANDARD DIAMETERS AND PACKAGES: For a complete list of diameters and packaging, please contact Hobart Brothers at (800) 424-1543, or (937) 332-5188 for International Customer Service.

Diam	eter	60-lb. (27.2kg)
Inches	(mm)	Coil
1/16	(1.6)	S248419-002
7/64	(2.8)	S248439-002

CONFORMANCES AND APPROVALS:

- AWS A5.18, E70C-3C
- AWS A5.18M, E48C-3C
- ASME SFA 5.18, E70C-3C
- ABS, 3YSA H10, (0.045" 1/16" diameters)

CAUTION:

Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standard Z49.1, "Safety in Welding and Cutting," published by the American Welding Society, 550 NW LeJune Road, Miami, FL 33126; OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210

Material Safety Data Sheets on any Hobart Brothers Company product may be obtained from Hobart Customer Service or at www.hobartbrothers.com.

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