

FLUX-COR 7

GAS-SHIELDED FLUX-CORED WIRE AWS E70T-1C, E70T-9C

061107 (replaces-051122)

FLUX-COR 7 offers excellent arc stability over the complete recommended welding range. Spatter is very low, the slag removes easily and cleanly, and bead appearance is excellent. High deoxidization enables **FLUX-COR 7** to weld over mill scale, rust and other contaminants better than most T-1 wires. However, this level of deoxidization will also cause increased hardening as multiple layers are welded and caution should be exercised in welding thick or highly restrained joints. **FLUX-COR 7** is used for single-and multiple-pass welding in the flat and horizontal positions using 100% CO₂ shielding gas.

PRODUCT CHARACTERISTICS:

- · Good performance over the entire range of amperage
- More deoxidization than the usual E70T-1 for improved performance on rusted and scaled plate
- Excellent weld bead configuration on horizontal fillets
- An outstanding general purpose E70T-1
- · Caution should be exercised on heavy multiple-pass weldments

SPECIFICATIONS:

E70T-1C, E70T-9C per AWS A5.20, ASME SFA 5.20 ABS 2SA, 2YSA H10

SHIELDING GAS:

100% CO₂, 35-50 cfh

WELDING POSITION:

Flat and horizontal

STANDARD DIAMETERS:

1/16", 5/64", 3/32"

WELD TEST PARAMETERS:

FLUX-COR 7 3/32" diameter electrode was welded using 100% CO₂ shielding gas with flow rate of 40 cfh, 400 amps (150 IPM), DCEP, and 27 volts with 1" electrical stickout and 300° \pm 25°F interpass temperature. A total of five layers were welded with one pass for Layer 1, two passes each for Layers 2 through 5. The direction of travel was reversed for each layer.

TYPICAL UNDILUTED WELD METAL CHEMISTRY*:

	С	Mn	Si	Р	S
100% CO ₂	0.03	1.60	0.68	0.007	0.012

TYPICAL MECHANICAL PROPERTIES*:

Tensile Strength:	91,000 psi (626 MPa)
Yield Strength:	78,000 psi (537 MPa)
Elongation:	24%
CVN @ 0°F (-18°C):	43 ft•lbs (59 J)
CVN @-20°F (-29°C):	36 ft• lbs (48 J)

*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 obtained when welded and tested in accordance with AWS A5.20 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. www.hobartbrothers.com 400 Trade Square East Troy, OH 45373 PH: 1-800-424-1543 FX: 1-800-541-6607



RECOMMENDED OPERATING PARAMETERS:

The information below was determined by welding performed with 100% CO₂ shielding gas at a flow rate of 35 cfh.

Diameter Electrical Stickout Position (ES)	Arc Voltage (volts)	Current DCEP (+) (amps)	Approx. Wire Feed Speed (in/min)	Deposition Rate (Ibs/hr)
1/16" 3/4" ± 1/4" Flat and Horizontal	26 27 28 30 32	200 250 300 350 400	176 240 321 400 482	6.1 8.3 11.2 16.8 17.4
5/64" 1" ± 1/4" Flat and Horizontal	25 28 31 32 35	225 300 400 450 500	110 175 275 325 385	6.0 9.6 15.6 18.9 22.0
3/32" 1" ± 1/4" Flat and Horizontal	24 27 30 32 37	250 350 450 500 600	80 100 125 200 260	6.8 10.8 16.4 18.9 25.0

Bold: Optimum parameters for welder appeal.

Notice:

Actual use of the product may produce varying results due to conditions and welding techniques over which Corex has no control, including, but not limited to, plate chemistry, weldment design, fabrication methods, electrode size, welding procedure, service requirements and environment. The purchaser is solely responsible for determining the suitability of Corex products for the purchaser's own use. Any prior representations shall not be binding. Corex disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

Caution:

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