

Cert # 05-R0925

## 110C-G METAL CORED Welding Wire

U.S. ALLOY CO. dba Washington Alloy 7010-G Reames Rd. Charlotte, NC 28216 www.weldingwire.com





## ALLOY DESCRIPTION AND APPLICATION:

110C-G is a metal cored electrode designed for single and multiple pass welding using 98% Argon /2% O<sub>2</sub> or 75% Argon /25% CO<sub>2</sub> shielding gas welding having a smooth spray-arc transfer commonly used of carbon and low alloy steels, in the flat and horizontal positions, where a minimum tensile strength of 110,000 psi is required in the deposited weld metal. This wire normally used in high strength applications which will produce a chemical composition of 2 % nickel and 0.5 % molybdenum yielding strengths ranging from 80-110 ksi. Steels commonly welded with this grade would include HY-80, ASTM A710, ASTM A514 and similar grades. Metal cored 110 will exhibit superb deposition rates, weld appeal with very little spatter.

## TYPICAL FCAW WELDING PROCEDURES; DCEP with 98% Argon /2% O<sub>2</sub> (35-50 cfh)

Wire Diameter	Wire Speed (ipm	) Amps	Volts	Electrical Stickout
0.045"	240 <b>-420</b> -580	180 <b>-250</b> -325	23 <b>-26</b> -28	1/2-1"
0.052"	225 <b>-350</b> -620	215 <b>-310</b> -465	24 <b>-27</b> -30	1/2-1"
1/16"	165- <b>310</b> -485	225 <b>-370</b> -525	23 <b>-27</b> -31	3/4-1.25 "

Procedures may vary with change in position, base metals, filler metals, equipment and other changes. (Based on optimum FLAT)

## TYPICAL UNDILUTED WELD METAL (%) AND WELD METAL PROPERTIES;

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Carbon	0.04		AWS Spec	Typical
Manganese	1.75	Tensile Strength (psi)	110,000	115,500
Nickel	2.05	Yield Strength (psi)	N/A	106,500
Silicon	0.42	Elongation in 2"	N/A	16%
Chromium	0.19	Charpy V-notch (-20°F)	N/A	42 ft·lbs
Molybdenum	0.54	(-60°F)		28 ft·lbs
Phosphorus	0.011			
Sulfur	0.011			

**AVAILABLE SIZES**: TCF 110C-G = Spools of .045

Other sizes may be available – please inquire

SPECIFICATIONS; ANSI/AWS A5.28 E110C-G ASME SFA A5.28 E110C-G

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