

# PREMIUM 70C-6M Carbon Steel Metal Cored Welding Wire

## **ALLOY DESCRIPTION AND APPLICATION:**

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



PREMIUM 70C-6M is a metal cored wire designed for single

or multi pass which will improve production on all welding of mild steels having a smooth stable arc transfer, spatter free, excellent bead contour, with a high deposition rate and nearly free of slag weld bead. This wire is formulated to weld flat and horizontal which has deoxidizers that helps where mill scale may be present yet yielding will very low smoke or clean up. This metal cored wire may be used on many fabrications and is also found often in robotic applications. Premium 70C-6M will promote the best operator appeal while given the ultimate performance in every aspect of your welding needs on a never-ending means.

#### TYPICAL METAL CORED WELDING PROCEDURES; DCEP OPTIMUM IN BOLD (FLAT)

Wire Diameter	Wire Speed (ipm)	Amps	Volts	Electrical Stickout	Ar/CO <sub>2</sub> (cfh)
0.035	350- <b>525</b> -700	180- <b>200</b> -315	29- <b>30</b> -35	3/8-3/4"	35-40
0.045	220- <b>400</b> -600	175- <b>250</b> -345	27- <b>30</b> -33	1/2-1"	35-45
0.052	220- <b>375-</b> 625	210- <b>300</b> -360	25- <b>30</b> -35	1/2-1"	40-50
1/16"	150- <b>330</b> -490	210- <b>365</b> -440	26- <b>31</b> -38	1/2-1.25"	40-50

Procedures may vary with change in position, base metals, filler metals, equipment and other changes.

#### **TYPICAL WELD METAL CHEMISTRY (%) AND WELD METAL PROPERTIES;**

	AWS Spec F	PREMIUM 70C-	6M BASED O	BASED ON 80% Argon 20% CO <sub>2</sub>			
Carbon	0.12	0.048		AWS Spec PR	REMIUM 70C-6M		
Manganese	1.75	1.502	Tensile Strength (psi)	70,000 min.	86,050		
Silicon	0.90	0.651	Yield Strength (psi)	58,000 min.	77,400		
Phosphorus	0.03	0.005	Elongation in 2"	22 % min.	27%		
Sulfur	0.03	0.004	Charpy V-notch at -20°F	20 ft·lbs min.	67 ft·lbs		
TYPICAL Diffusible Hydrogen: AWS H4 Spec is max. of 4 (ml/100g weld): Heat # M23A9C with 80% Ar + 20% CO <sub>2</sub> was @ 2.25 (ml/100g weld)							

AVAILABLE SIZES: TCD 70C-6M= Spools and Drums of .045

Other sizes may be available – please inquire

SPECIFICATIONS; ANSI/AWS A5.18 E70C-6M ASME SFA A5.18

E70C-6M

All single values on AWS composition are maximum percentages & Total others elements 0.50

### Ask for and Experience all the PREMIUM branded fillers Washington Alloys has to offer !!

EAST COAST 825 Groves St Lowell, NC 28098 Tel (888) 522-8296 Fax (909)291-4586

**GULF COAST** 4855 Alpine Drive #100 Stafford, TX 77477 Tel (877) 711-9274 Fax (281)313-6332

WEST COAST 8535 Utica Ave Rancho Cucamonga, CA 91730 Tel (800)830-9033 Fax (909)291-4586



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