

CRCARB-O Cored Hard-facing Wire

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





In accordance with ISO 9001 Cert # 05-R0925

ALLOY DESCRIPTION AND APPLICATION:

CRCARB-O is designed to deposit an alloy composed of a high density of primary chromium carbides in a semi-austenitic iron matrix. It is considered the most economical of hard-facing alloys in high wear applications. Deposit has high abrasion resistance with moderate impact resistance. Can be applied in multiple layers depending on application. Weld deposit will stress relieve itself by crack checking. Can be used in applications up to 1,100 F. Wire is designed for self-shielded welding but additional 100% CO2 gas shield may be used. 2-layer max recommended

Grinding rolls, augers, drill stems, mining bucket and teeth over-laying wear plate, clad pipe, dredge pump components, rock crushing hammers, ditcher teeth, plow, cultivator points

TYPICAL FCAW WELDING PROCEDURES; DCEP OPTIMUM IN BOLD (FLAT)

Wire Diameter	Wire Speed (ipm)	Amps	Volts	Electrical Stickout
0.035	275- 520 -780	70- 100 -160	19- 20 -24	3/8-3/4"
0.045	200- 370 -600	100- 150 -205	21- 25 -30	1"- 1¾ "
0.052	160 -340- 500	120- 175 -390	22- 27 -30	1"
1/16"	150- 320 -390	140- 230 -375	24- 28 -31	1" -2"
5/64"	120- 250 -300	250- 385 -450	26- 29 -32	3/4-1 1/4"
3/32"	110- 185 -275	300- 425 -550	25- 29 -34	3/4-1 1/4"

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

Carbon	1.25-3.75	Chromium	8.5-11.25
Manganese	1.75 max	Boron	1.75 max
Silicon	0.5-3.5	Molybdenum	0.25-1.20
Zirconium	0.5-3.5	Iron	Balance
Hardness (two layers)	HRC 62-64	Temperature rating	1000°F
Impact strength	Moderate	Abrasion Resistance	Excellent
Cross Check Deposit	Yes	Machinability	No

AVAILABLE SIZES:

Fax (704)598-6673

THF CRCRB-O = Spools of .035, .045 1/16"

Fax (281)313-6332

Other sizes available – please inquire (800HT in the past)

SPECIFICATIONS: INTERNAL

EAST COAST	GULF COAST	WEST COAST				
7010-G Reames Rd	4855 Alpine Drive #100	8535 Utica Ave				
Charlotte, NC 28216	Stafford, TX 77477	Rancho Cucamonga, CA 91730				
Tel (888) 522-8296	Tel (877) 711-9274	Tel (800)830-9033				

WA. ALLOY CO.

DC 1-2019

Warehouse Distribution Center - Dallas/Fort Worth, Portland, Oregon & Boston, Massachusetts Head Office - Puyallup, Washington

Fax (909)291-4586

Washington Alloy Company believes that all information and data given is correct. Use this information to assist in making your own evaluations or decisions and this information should not be mistaken as an expressed or implied warranty. U.S. ALLOY CO. assumes no liability for results or damages incurred from the use of any information contained herein, in whole or in part.