

in accordance with

ISO 9001:2000 Cert # 05-R0925

4130 Chrome-Moly Metal-Cored Wire

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







ALLOY DESCRIPTION AND APPLICATION:

4130MC is a metal cored wire designed for welding and build up on mild & low alloy 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. This metal cored wire is typical used on dies, forgings, castings and other base metals where heat treating is required.

TYPICAL METAL CORED WELDING PROCEDURES; DCEP

Wire Diameter	Wire Speed (ipm)	Amps	Volts	Electrical Stickout	Gas ⁽¹⁾ (cfh)
0.035	300-650	160-315	26-34	3/8-3/4"	35-40
0.045	200-550	150-325	24-31	1/2-1"	35-45
0.052	200-575	200-440	23-33	1/2-1"	40-50
1/16"	150-470	210-480	26-35	1/2-1.25"	40-50

Procedures may vary with change in position, base metals, filler metals, equipment and other changes. (1)100 % CO₂ or 75% Ar/25% CO₂

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

	U.S. ALLOY 4130MC	BASED ON 100%	CO_2	
Carbon	0.21	Typical (Stress Rel	Typical (Stress Relieved) (2)	
Manganese	1.18	Tensile Strength (psi)	135,000	
Silicon	0.32	Yield Strength (psi)	129,000	
Phosphorus	0.010	Elongation in 2"	18 %	
Sulfur	0.011	Charpy V-notch at 72°F	82 ft·lbs	
Chroium	0.45	PWHT: fully annealed, welded, p	ostweld re-heat	
Nickel	1.18	oil quenched at 1600° F &	tempered 1150° F	
Moly	0.21	Hardness as welded 34-38 may be	e hardenable to 52	

AVAILABLE SIZES: TU 4130MC= Spools of .045

Other sizes may be available - please inquire

SPECIFICATIONS: INTERNAL



11-2006 DC

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