

1/8"

Tel (888) 522-8296

Fax (704)598-6673

1/8"

## 4130 Chrome-Moly Welding Wire and Rod

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



## ALLOY DESCRIPTION AND APPLICATION;

4130 is a Chromium-molybdenum low alloy wire that will produce a dense, heat-treatable deposit. This alloy is used to weld AISI/SAE 4130 and 8630 and other heat-treatable alloys or base metals needing flame hardening. Preheat and inter-pass recommended and may also need followed by post heat treating.

TYPICAL GMAW WELDING PROCEDURES; DCEP Short Circuit (1) 98Ar/2% 02										
Wire Diameter	Wire Speed	(ipm) An	nps	Volts '	Travel speed (ipm)	$CO_2$ (cfh)				
0.023	80-350	30-8	35	14-19	10-15	20-25				
0.030	110-340	40-	130	15-20	12-24	20-25				
0.035	100-520	60-2	235	16-25	11-40	20-30				
0.045	70-270	90-2	290	18-23	12-22	25-35				
Spray 0.035	320-600	160	300	23-26	11-22	(1)25-35				
0.045	170-550	170	375	23-29	12-21	<sup>(1)</sup> 25-35				
1/16"	175-350	275-	475	25-31	9-19	<sup>(1)</sup> 25-35				
TYPICAL GTAW WELDING PROCEDURES; DCEN with EWTh-2 truncated conical tip										
Filler Wire Size	Tungsten A	Amps	Volts	Gas Cup S	Size Argon (cfh)	Base thickness				
1/16"	1/16"	100-160	12	3/8"	20	1/16-3/32"				
1/16-3/32"	3/32"	120-250	12	3/8"	20	1/8- 3/16"				

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

1/2"

Tel(800)830-9033

Fax (909)291-4586

25

1/4 - 1/2"

## **TYPICAL WELD CHEMISTRY (%)& WELD METAL PROPERTIES;** 100% Ar (GTAW)

12

150-300

Tel (877) 711-9274

Fax (281)313-6332

	PWHT: completely annealed								
Carbon	0.25 welded post weld re-heat treated								
Manganese	1.25 oil quenched at 1600°F then								
Silicon	0.40	Temper	red at	1150° F	950° F				
Phosphorus	0.013	Tensile Strength	(psi)	190,000	200,000				
Sulfur	0.015	Yield Strength	(psi)	168,000	188,000				
Chromium	0.50								
Nickel	1.30								
Molybdenum	0.20								
<b>AVAILABLE SIZES</b> : TU 4130 = Spools and rods of .030, .035, .045, 1/16, 3/32, 1/8									
Vacuum melted, Flux cored and Metal core alloys also available									
SPECIFICATIONS;	AISI/SAE	4130							
EAST COAST	GULF COAST		WEST						
7010-G Reames Rd	4755 Alpine Drive #100A		8535 Utica Ave						
Charlotte, NC 28216	Stafford, TX 77477		Rancho Cucamonga, CA 91730						



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