

4340 Chrome-Moly Welding Wire and Rod

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





GAWD/ 4340 is a Chromium-molybdenum low alloy wire that will produce a dense, heat-treatable deposit. This alloy is used to weld AISI/SAE 4340 and 4330 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 GMA	AW WELD	ING PRO	CEDUR	E S; DCEP Sh	ort Circuit ⁽¹⁾	98Ar/2% O2				
Wire Diameter	Wire Speed	(ipm) A	mps	Volts T	ravel speed (ipm)	(cfh) 75/25				
0.023	80-350	30	-85	14-19	10-15	20-25				
0.030	110-340	4()-130	15-20	12-24	20-25				
0.035	100-520	60	-235	16-25	11-40	20-30				
0.045	70-270	90	-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	⁽¹⁾ 25-35				
1/16"	175-350	275-475		25-31	9-19	⁽¹⁾ 25-35				
TYPICAL GTAW WELDING PROCEDURES; DCEN with EWTh-2 truncated conical tip										
Filler Wire Size	Tungsten	Amps	Volts	Gas Cup Si	ze 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"				
1/8"	1/8"	150-300	12	1/2"	25	1/4-1/2"				

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

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

	PWHT: completely annealed							
Carbon	0.35 welded post weld re-heat treated							
Manganese	0.85 oil quenched at 1600°F then							
Silicon	0.50 Tempe		red at	1150° F	950° F			
Phosphorus	0.011	Fensile Strength	ı (psi)	200,000	289,000			
Sulfur	0.014	Yield Strength	(psi)	168,000	250,000			
Chromium	0.78							
Nickel	1.80							
Molybdenum	0.25							
AVAILABLE SIZES:	TU 4340 = Spo	ols and rods	of					
Vacuum mel	ted, Flux cored an	nd Metal core	e alloys	also available	e			
SPECIFICATIONS;	AISI/SAE 4	4340						
EAST COAST	GULF COAS	Г	WEST	Г COAST				
7010-G Reames Rd	4855 Alpine D	0rive #190	8535	Utica Ave				
Charlotte, NC 28216	Stafford, TX 7	7477	Ranch	no Cucamonga	a, CA 91730			
Tel (888) 522-8296	Tel (877) 711-	9274	Tel(8	00)830-9033				
Fax (704)598-6673	Fax (281)313-	6332	Fax (9	909)291-4586				



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Warehouse Distribution Center – Dayton, Ohio

Head Office – Puyallup, Washington

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