

## 5183 ALUMINUM Welding wire

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



GAWD/



5183 is an aluminum filler that has improved strengths on alloys sush as 5086 compared to 5356 that may not meet the needed tenisle. Commonly used on marine commponents, drilling rigs, cryogenics, railroad cars, storage tanks - base metals of 5083, 5086, 5456, to each other or to 5052,5652 and 5056.

## TYPICAL GMAW WELDING PROCEDURES; DCEP

Wire Diameter	Amps	Volts	Travel speed (ipm)	Argon (cfh)
0.030	60-175	15-24	25-45	25-30
0.035	70-185	15-27	25-40	30-35
3/64	125-260	20-29	24-35	35-45
1/16	170-300	24-30	28-38	45-55
3/32	275-400	26-31	14-20	60-75

TYPICAL GTAW WELDING PROCEDURES; ACHF with Pure or Ziconiated

Hemisphere shape tungsten tip

Filler Wire Size	Tungsten	Amps	Volts	Gas Cup Size	Argon (cfh)	Base thickness
1/16"	1/16"	60-80	15	3/8"	20	1/16"
3/32"	3/32"	125-160	15	3/8"	20	1/8"
1/8"	1/8"	190-220	15	7/16"	20	3/16"
5/32"	5/32"	200-300	15	1/2"	25	1/4"
3/16"	3/16"	330-380	15-20	5/8"	25	3/8"
1/4"	1/4"	400-450	25	5/8"	25	1/2"

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

## **TYPICAL CHEMISTRY AND PROPERTIES;**

Magnesium	Titanium	Manganese	Chromium	Copper	Silicon	Zinc	Iron	Beryllium
4.3-5.2	0.15	0.50-1.00	0.05-0.25	0.10	0.40	0.25	0.40	0.0008
Aluminum Remainder and others each 0.50 & total 0.15			All values are maximum percentage unless noted					

Solidus:1075°F Liquidus:1180°F Density: 0.096 lbs./cu. In. Anodize color: White Average Tensile Strength All weld metal (as welded) 41,000 psi (283 mpa)

AVAILABLE SIZES: TA 5183= Spools of .030, .035, 3/64, 1/16, 3/32 TB 5183 = Cut lengths of 1/16, 3/32, 1/8, 5/32Other sizes available - please inquire ANSI/AWS A5.10 **SPECIFICATIONS:** ER/R 5183 ASME SFA5.10 ER/R 5183 EAST COAST WEST COAST 7010-G Reames Rd 8535 Utica Ave Charlotte, NC 28216 Rancho Cucamonga, CA 91730 Tel (888) 522-8296 Tel(800)830-9033 Fax (704)598-6673 Fax (909)291-4586



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