

T H E H A R I S P R O D U C T S G R O U P R O D U C T S G R O U P A O U P A O U P A N P

TECHNICAL SPECIFICATION SHEET

4047 (718) ALUMINUM WELDING AND BRAZING WIRE

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NOMINAL COMPOSITION:

Aluminum Magnesium		Copper	.30 % max.
Manganese	.15 % max.	Zinc	.20 % max.
Silicon	11.0-13.0 %	Iron	0.8% max.
Beryllium	.0003 % max.		
Others	Each .05% max. Total 0.15% max		

Physical Properties:

Solidus	1065 ^o F (574 ^o C)	Density lbs/cu in	0.097
Liquidus	1170 °F (632 °C)	Post Anodize Color	Grey

RECOMMENDED WELDING PARAMETERS:

GMAW (MIG) Parameters (DC reverse polarity electrode positive) Spray transfer

Metal Thickness	Wire Diameter	Amps	Volts	Argon
1/16"	.030	70-110	15-20	25
1/8"	.030-3/64	120-150	20-24	30
3/16"	.030-3/64	130-210	22-26	30-35
1/4"	3/64-1/16	170-225	24-28	40
3/8"	1/16	225-300	26-29	50

All statements, information and data given are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind, expressed or implied.

Additional information available at our web site: www.harrisproductsgroup.com



Argon

(cfh)

20

20

25

30

35

35

7/16-1/2

1/2

5/8

5/8

Filler Wire Volts ACHF Metal Tungsten (pure or Amps Gas Cup Thickness zirconiated) Size 1/16"- 3/32" 3/8 1/16" 1/16"-3/32" 70-100 15 125-175 15 1/8" 1/8"-5/32" 1/8"-5/32 7/16

GTAW (TIG) Parameters (AC) Hemisphere tip shape tungsten electrode

5/32-3/16"

3/16"

3/16"-1/4"

1/4"

* All parameters are suggested as basic guidelines and will vary depending on joint design, number of passes and other factors.

170-225

220-275

330-380

400-450

15

15

15

25

SPECIFICATION COMPLIANCE:

5/32"-3/16"

3/16"-1/4"

1/4"

1/4"

3/16"

1/4"

3/8"

1/2"

ANSI/AWS A5.10 Class R/ER 4047, ASME SFA 5.10,, QQ-R-566B CLASS R/ER4047, ANSI/AWS A5.8 class BAISi-4, AMS 4185 (Chemistry Only)

WARNING: PROTECT yourself and others. Read and understand this information. FUMES AND GASES can be hazardous to your health. ARC RAYS can injure eyes and burn skin. ELECTRIC SHOCK can KILL.

- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheets (MSDSs), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the arc, or both, to keep fumes and gases from your breathing zone and the general area.
- Wear correct eye, ear, and body protection.
- Do not touch live electrical parts.
- See American National Standard Z49.1, Safety in Welding, Cutting, and Allied Processes, published by the American Welding Society, 550
 N.W. LeJeune Road, Miami, Florida 33126; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402

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