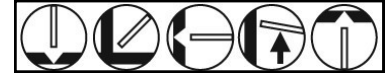


# Hobart® Maxal® 4043



AWS A5.10: ER4043, R4043

**WELDING POSITIONS:**



**FEATURES:**

- Moderate strength (28 ksi typical)
- Low melting temperature/high fluidity
- Low welding smut and discoloration
- Low ductility, formability, and lower toughness
- Moderate electrical conductivity and thermal conductivity

**BENEFITS:**

- Excellent corrosion resistance
- Low shrinkage rate/reduced distortion
- Low hot cracking sensitivity in most applications

**APPLICATIONS:**

- Welding 6xxx alloys
- Automotive/motorcycle frames
- Sports products - scooters/bicycles
- General repair and maintenance

**SHIELDING GAS:** 100% Argon (Ar) or Argon/Helium mixtures, typical: GMAW - 35-50 cfh (14-24 l/min), GTAW 20-30 cfh (10-14 l/min).

**TYPE OF CURRENT:** Direct Current Electrode Positive (DCEP) for GMAW, AC for GTAW

**STANDARD DIAMETERS:** 0.035" (0.9 mm), 3/64" (1.2 mm), 1/16" (1.6 mm), 3/32" (2.4 mm), 1/8" (3.2 mm)

**STORAGE:** Product should be stored in a dry, enclosed environment, and in its original intact packaging

**TYPICAL CHEMICAL VALUES\*:**

Weld Metal Analysis (%)	ER & R 4043
Silicon (Si)	4.5-6.0
Iron (Fe)	0.8
Copper (Cu)	0.30
Manganese (Mn)	0.05
Magnesium (Mg)	0.05
Zinc (Zn)	0.10
Titanium (Ti)	0.20
Beryllium (Be)	<0.0003
Others Each	0.05
Others Total	0.15
Aluminum (Al)	Remainder

\*Unless noted-single values are maximums.

**TYPICAL PROPERTIES:**

Melting Range	Density	Electrical/Thermal Conductivity
1065-1170°F	0.097 lbs/in <sup>3</sup>	42% IACS/1050 EU

As Welded UTS Typical	Anodized Color	Elevated Temp. Applications +150°F
28 ksi	Gray	YES

\*The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and Hobart Brothers LLC expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and tested in accordance with AWS A5.10 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers LLC.

# Hobart® Maxal® 4043

Diameter		Base Material Thickness		Amps		Volts		Wire-Feed Speed (ipm)	
Inches	(mm)	Inches	(mm)	4xxx	5xxx	4xxx	5xxx	4xxx	5xxx
0.035	(0.9)	1/16	(1.6)	90	100	23	21	300	350
0.035	(0.9)	1/8	(3.2)	130	140	24	22	400	450
0.035	(0.9)	1/4	(6.4)	170	180	25	23	500	600
3/64	(1.2)	3/32	(2.4)	110	120	25	24	170	220
3/64	(1.2)	1/8	(3.2)	150	160	26	25	270	330
3/64	(1.2)	1/4	(6.4)	190	220	26	25	320	370
3/64	(1.2)	3/8	(9.5)	220	230	27	25	390	450
1/16	(1.6)	1/4	(6.4)	200	210	26	24	170	200
1/16	(1.6)	3/8	(9.5)	230	240	27	25	200	230
1/16	(1.6)	1/2	(12.7)	260	270	28	26	240	270
1/16	(1.6)	3/4	(19.1)	280	290	29	27	260	300
1/16	(1.6)	1	(25.4)	300	310	30	28	280	320

**Maintaining a proper welding procedure - including pre-heat and interpass temperatures - may be critical depending on the type and thickness of aluminum being welded.**

**See Above:** This information was determined by welding using 100%Argon shielding gas with a flow rate between 35-50 cfh (14-24 l/min).

**AVAILABLE DIAMETERS AND PACKAGES:** For a complete list of diameters and packaging, please contact Hobart Brothers at (800) 424-1543 or (937) 332-5188 for International Customer Service.

Diameter Inches (mm)	1-lb. (0.45 kg) Plastic Spool	16-lb. (7.3 kg) Plastic Spool	16-lb. (7.3 kg) Wire Basket	22-lb. (10 kg) Plastic Spool	100-lb. (45 kg) Drum	300-lb. (136 kg) Drum	350-lb. (159 kg) Wooden Reel	10-lb. (4.5 kg) Tube, 36-In Long Cut Length TIG Rod
Net Pallet Weight	1458-lb. (661 kg)	1296-lb. (588 kg)	1296-lb. (588 kg)	1782-lb. (808 kg)	200-lb. (91 kg)	600-lb. (272 kg)	1050-lb. (476 kg)	2160-lb. (980 kg)
0.035 (0.9)	404303504	404303512P	404303512	—	—	—	—	—
3/64 (1.2)	404304704	404304712P	404304712	404304712P22	404304723L	404304723	—	—
1/16 (1.6)	—	—	404306212	404306212P22	—	—	404306230	404306270
3/32 (2.4)	—	—	—	—	—	—	—	404309470
1/8 (3.2)	—	—	—	—	—	—	—	404312570

300 lb drum dimensions: diameter = 23-1/2"; height = 36"

100 lb drum dimensions: diameter = 23-1/2"; height = 18"

## CONFORMANCES AND APPROVALS:

- AWS A5.10, ER4043, R4043
- ASME SFA 5.10, ER4043, R4043
- AWS A5.01 Class S1, Schedule F
- CWB, ER4043 (0.8 mm - 1.6 mm)
- AMS 4190 (Chemistry Limits Only)
- vd TUV 1153

**TECHNICAL QUESTIONS?** For technical support of Hobart Filler Metals products, contact the Applications Engineering department by phone toll-free at 1-800-532-2618 or by e-mail at [Applications.Engineering@hobartbrothers.com](mailto:Applications.Engineering@hobartbrothers.com)

## CAUTION:

Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standard Z49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36th St., Miami, FL 33166 (can also be downloaded online at [www.aws.org](http://www.aws.org)); OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210

Safety Data Sheets on any Hobart Brothers LLC product may be obtained from Hobart Customer Service or at [www.hobartbrothers.com](http://www.hobartbrothers.com).

Because Hobart Brothers LLC is constantly improving products, Hobart reserves the right to change design and/or specifications without notice.

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