



Aluminum-Silicon Alloy Wire

MigTectic[®] 4043



- Used to weld wrought and cast aluminum grades
- Meets AWS A5.10 specification under the ER4043 classification
- Excellent for factory/on-site applications

MigTectic® 4043

MigTectic 4043 is an aluminum-silicon alloy which is commonly used to weld such wrought aluminum grades as 1100, 6061, 6063 and 5052 and cast aluminum grades as A356.0, A357.0 and A444.0 MigTectic 4043 may be used in the short-circuiting, pulse-arc and spray-arc welding modes. Sheet metal and plate thicknesses ranging from 1/16" (1.6mm) to 1/2" (12.7mm) are readily welded in all positions.

TECHNICAL DATA

Typical Values

Tensile Strength:	Up to 34,000 psi
Current:	DC+ (electrode positive)
Shielding Gas:	100% Argon
AWS Specification:	Meets AWS A5.10 ER4043

SUGGESTED WELDING PARAMETERS:

Diameter	Voltage	Amperage	Stick-Out
0.030	15 - 22	70 - 110	1/2" - 3/4"
0.035	17 - 24	75 - 120	1/2" - 3/4"
0.045	19 - 28	90 - 150	3/4" - 1"

PROCEDURE FOR USE

Use stainless steel brush to clean area to be welded.
No pre-heat necessary for parts less than 1/4" thick. Over 1/4" thick, a pre-heat of 400°F should be applied. Base material 1/4" and thicker should be beveled prior to welding.

TYPICAL APPLICATIONS

- Marine hull construction
- Aluminum furniture fabrication
- Tank and storage fabrications (factory/on-site)
- Automotive Panels

Observe normal welding practices, respiratory protection and proper air flow pattern advised. For general welding practices, see AWS publications Z49.1 "Safety in Welding and Cutting and Allied Process". Welding is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before beginning welding operations. DO NOT operate welding equipment or use welding materials before you have thoroughly read the proper instruction manual(s). Please refer to the Eutectic internet site for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS, AND/OR THE INSTRUCTIONS OF WELDING EQUIPMENT OR MATERIAL MANUALS, MAY BE HAZARDOUS TO YOUR HEALTH.



Eutectic Corporation:
N94 W14355 Garwin Mace Dr.
Menomonee Falls WI, 53051 USA
+1 800. 558. 8524 • eutectic.com

Eutectic Canada:
428, rue Aimé-Vincent, Vaudreuil-Dorion,
Québec J7V 5V5 Canada
+1 800. 361. 9439 • eutectic.ca



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