

# E4043



**E4043 is a general purpose aluminium electrode for arc welding aluminium alloys. The arc is stable and operates at low temperatures with a minimum of spatter and fuming. The welds are strong, dense, and free of porosity on both production and maintenance applications. E4043 is a great choice when welding heat-treated aluminium parts. This welding rod may also be used in brazing applications.**

#### **Typical Applications:**

- Arc welding aluminium's alloyed with copper, silicon, and magnesium.
- Excellent for joining dissimilar grades of aluminium.

#### **AWS Specification:**

AWS A5.3

#### **AWS Classification:**

E4043

#### **Welding Current:**

DCEP (Electrode Positive)

#### **Typical Wire Chemistry:**

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Si: 5.25

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Cu: 0.23

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Fe: 0.8

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Mg: 0.04

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Mn: 0.04

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Zn: 0.08

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Al: BAL

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#### **Typical Mechanical properties (As Welded):**

Yield Strength, psi: 34,000  
Tensile Strength, psi: 20,000  
% Elongation: 18

#### **Welding Positions:**

Flat, Horizontal

#### **Available Diameters:**

5/64", 3/32", 1/8" & 5/32"

#### **Operating Range in Amps:**

5/64": 20 - 60  
3/32": 50 - 80  
1/8": 70 - 120  
5/32": 110 - 150