

ER4043

DESCRIPTION:

ER4043 is a versatile aluminum silicon welding wire. Deposited metal has a good resistance to thermal cracking and also to ensure a certain degree of mechanical properties. However, in the case of anodizing, the weld metal and the base metal have different colors. Welding can produce brittle Mg_2Si in the weld of aluminum-magnesium alloy, which reduces the plasticity and corrosion resistance of the joint.

APPLICATION:

Used for aluminum alloy workpieces , castings by argon arc welding and oxygen-acetylene gas welding as filling materials except aluminum-magnesium alloy, especially for heat-treating aluminum alloys that are susceptible to thermal cracking, and can obtain better results.

ATTENTION:

- a. Before welding, the edges of the workpiece and the surface of the welding wire should be strictly cleaned of oxide film and oil contamination.
- b. Pads can be used to hold the molten metal during welding to ensure the formation of welds.
- c. Oxyacetylene gas welding must be used together with aluminum gas flux.

Chemical Composition of Wire: (%)

	Cu	Si	Fe	Mn	Mg	Zn	Ti	Al
Standard	0.30	4.50-6.00	0.80	0.05	0.05	0.10	0.20	BAL