

Product Name:ER4047 | AlSi12

Product description

ER4047 is the eutectic aluminum silicon alloy welding wire with about 12% Si element. Suitable for Al-Si, Al-Si-Mg, Al Si mg Cu wrought aluminium and aluminium (7%Si) argon arc welding.

WIRE COMPOSITION (%)

	Al	Si	Fe	Cu	Mn	Mg	Zn	BE	Ti
Requirments-ER4047	Remainder	11.0-13.0	<0.80	<0.30	<0.10	<0.10	<0.20	<0.0003	<0.15
Typical Results	Remainder	0.06	0.11	0.005	0.75	4.8	0.005	0.0000	0.01

Mechanical properties

Welding consumables	Y.S (MPa)	T.S (MPa)	El. (%)	Melting point (°C)	Anodizing color
ER4047	124-224	275-330	12-16	579-582	White

Key Features:

- Welding filler.
- Metal spraying.
- Similar to AlSi12 (Germany), BS N21 (United Kingdom).
- Lower melting point and higher fluidity than 4043 wires.
- Widely used for brazing of aluminum, Al-Mn, Al-Si-Mg alloy materials.
- Can be used as a substitute for 4043 wires to increase silicon in the weld metal, minimize hot cracking and produce higher fillet weld shear strength.

Application:

- Automotive components
- Body panels
- Brazing of aluminum sheets, extrusions, and castings

Shielding Gas:

- 100% Argon
- Argon/Helium mixture

Conformance:

- ISO 1B273: S Al 4047 (AlSi12)
- SFA/AWS A5.10/A5.10M: ER4047

Diameters/Packing

Type	Diameters(mm)	Package	Weight(kg)
MIG wire	0.9mm, 1.0mm, 1.2mm, 1.6mm	D300mm Plastic Spool/Steel Spool	7
		D270mm Plastic Spool	7
	0.9mm, 1.0mm, 1.2mm	D200mm Plastic Spool	2
		D100mm Plastic Spool	0.5
TIG rod	1.6mm, 2.0mm, 2.4mm, 3.0mm, 3.2mm, 4.0mm, 5.0mm, 6.0mm	Length:1000mm	5
		Carton or plastic tube	10
			20