

## ❖ Product Description

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| I. An Al/5Si solid wire                            | IV. Most widely used general purpose filler wire |
| II. Smooth wire feedability with efficient welding | V. The addition of Si improves fluidity          |
| III. High resistance to hot cracking               | VI. Radiographic weld quality                    |

## ❖ Range of Application

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|--|---|
| I. For welding of wrought and cast Al alloys with presence of Si upto 7% | III. For ship building and mobile machinery   |
| II. Good for Al-Si and Al-Mg-Si alloys                                   | IV. For welding similar grade Al alloys in the form of pipe, plate, forging and casting |

## ❖ Classification

- AWS/SFA 5.10 ER4043

## ❖ Chemical Composition

Type of Wire		Si	Fe	Mn	Mg	Zn	Ti	Al	Cu	Be	Other Each	Other Total
ER4043	Min	4.5	-	-	-	-	-	-	-	-	-	-
	Max	6.0	0.8	0.00	0.05	0.10	0.20	Bal	0.3	0.0003	0.05	0.15

## ❖ Mechanical Properties of all weld metal

Condition	UTS, MPa (Min)	YS, MPa (Min)	% Elongation	Charphy "v" Notch Impact @ -30°C
As Welded	200	-	-	-

## ❖ Wire Size & Welding Position

- Diameter in mm- 0.60, 0.80, 0.90, 1.00, 1.20, 1.40, 1.60
- Weld Position- All position

## ❖ Current & Gas Flow

- DCEP; 15-22lit/min

## ❖ Packaging

Size Available in mm	0.60, 0.80, 0.90, 1.00, 1.20, 1.40, 1.60			
Packing Code	A	B	C	D
Packing Available	SD 100	SD200	SD270	SD 300
Net Weight of Wire	0.5KG	1KG	7KG	7KG

### Special Notes: -

- (1) All the value above mentioned are typical values.
- (2) Usually all chemistry and mechanical properties will depend on actual wire chemistry and arc voltage used for welding.

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