

## ❖ Product Description

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| <p>I. Magnesium close to 5% and higher manganese content of aluminium magnesium welding wire</p> <p>II. Smooth wire feedability with efficient welding</p> | <p>III. Good corrosion resistance, heat resistance, high strength, good ductility</p> <p>IV. Provides fine colour to welded joints</p> <p>V. Uniform weld beads</p> <p>VI. Radiographic weld quality</p> |
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## ❖ Range of Application

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|---|---|
| <p>I. For welding general fabrication with Mg of 4.5%</p> <p>II. It can be used for joining overly forging, casting alloys processing in the same grade</p> | <p>III. Pressure vessels, nuclear ship building, boiler, space industry, etc.</p> |
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## ❖ Classification

- AWS/SFA 5.10 ER5183

## ❖ Chemical Composition

Type of Wire		Si	Fe	Mn	Mg	Zn	Ti	Cu	Al	Be	Other Each	Other Total
ER5183	Min	-	-	0.05	4.30	-	-	-	-	-	-	-
	Max	0.4	0.40	1.0	5.20	0.25	0.15	0.10	Bal	0.005	0.05	0.15

## ❖ Mechanical Properties of all weld metal

Condition	UTS, MPa (Min)	YS, MPa (Min)	% Elongation	Charpy "v" Notch Impact @ -30°C
-	283	-	20	-

## ❖ 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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