



# SAFRA Al.Mg.5/ER 5356

A.W.S./ASTM A5.10:  
ER 5356

DIN EN ISO 18273:  
S Al 5356-AIMg5Cr A

## DESCRIPTION

Aluminium wires and rods for welding alloys with aluminium and magnesium basis, with maximum 5% Magnesium. High corrosion resistance.

Applications in the construction of ships, storage tanks, railways and in the automotive industry.

## CHEMICAL COMPOSITION

Al	remainder
Si	<0,25
Fe	<0,40
Cu	<0,10
Mn	0,05 - 0,20
Mg	4,5 - 5,5
Cr	0,05 - 0,20
Zn	<0,10
Ti	0,06 - 0,20
Be	<0,0003

## MATERIALS TO BE WELDED

Al Mg 3	Al Mg 5	Al Mg Mn	Al Zn Mg 1	G-Al Mg 3 Si	G-Al Mg 5 Si	G-Al Mg 10
Al Mg 1 Si Cu	Al Mg Si 0,7					

## SHIELDING GASES FOR GMAW/GTAW

Ar 99,99% min.  
Ar 75% + He 25%  
Ar 50% + He 50%

## MINIMAL VALUES OF THE MECHANICAL PROPERTIES (WELDED METAL)

Tensile strenght Rm: 240 N/mm<sup>2</sup>  
Yeld strenght Rp 0,2: 110 N/mm<sup>2</sup>  
Elongation L=5d: 17%

## AVAILABLE SIZES

MIG: 6-7 Kg D300 or K300/KS300 Spools

TIG carton box of 10 kg  
(x 1000 mm length)

### DIAMETER OF THE WIRE

0,8 mm - 1,0 mm - 1,2 mm - 1,6 mm - 2,0 mm - 2,4 mm

### DIAMETER OF THE RODS

1,6 mm-2,0 mm-2,4 mm-3,2 mm-4,0 mm-5,0 mm

MINI-MIG 0,5 Kg D100 Spools

### DIAMETER OF THE WIRE

0,8 mm - 1,0 mm - 1,2 mm

MORE DIAMETERS AND PACKAGING UPON REQUEST

OTHERS EACH <0,05

OTHERS TOTAL <0,15