

DESCRIPTION

Aluminium wire and rods used to weld aluminium magnesium base metal alloys with a maximum of 5,3% Mg. All elements of this alloy are closely controlled for optimum weld strenght. Applications in military industry, general constructions and structural industry.

AWS A5.10/A5.10M
ER 5556A, R5556A

EN ISO 18273
S Al 5556A / AlMg5Mn1(A)

MATERIALS TO BE WELDED

Al Mg 4,5 Mn / Al Mg 5 / Al Zn 4,5 Mg 1 / Al Mg 5 Mn / Al Mg 2,7 Mn /
Al Mg Si 1

SHIELDING GASES FOR GMAW/GTAW

I1, I2, I3

MINIMAL VALUES OF THE MECHANICAL PROPERTIES *(welded metal)*

Tensile strenght Rm: 290 N/mm²
Yeld strenght Rp 0,2: 145 N/mm²
Elongation L=5d: 17 %

AVAILABLE SIZES*

MIG: 5-6-7 Kg D300 or K300/KS300 spools

Diameter of the wire

0,8 mm - 0,9 mm - 1,0 mm - 1,2 mm - 1,6 mm - 2,0 mm - 2,4 mm

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

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 / 2 Kg D200 spools

Diameter of the wire

0,8 mm - 0,9 mm - 1,0 mm - 1,2 mm - 1,6 mm

* More diameters and packaging upon request

CHEMICAL COMPOSITION

in% (m/m)^(a)

Al	remainder
Si	0,25
Fe	0,40
Cu	0,10
Mn	0,60 - 1,0
Mg	5,0 - 5,5
Cr	0,05 - 0,20
Zn	0,20
Ti	0,05 - 0,20
Be	0,0003
	others each 0,05
	others total 0,15

*(a) Single values shown in the table
are maximum values, unless
otherwise noted.*