

DESCRIPTION

Aluminium wires and rods for welding aluminium-magnesium basis alloys with maximum 5% Mg. Zirconium acts as grain-refiner to improve both the bending and the corrosion resistance. Applications in the construction of ships, off-shore, storage tanks, railways and automotive industry.

AWS A5.10/A5.10M
ER5087,R5087

EN ISO 18273
S Al 5087 / AlMg_{4,5}MnZr(A)

MATERIALS TO BE WELDED

Al Mg 4,5 Mn / Al Zn Mg Cu 1,5 / Al Mg 5 Mn / Al Mg 3 / Al Mg 5 / Al Mg Mn /
Al Zn Mg1 / 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

I1,I2,I3

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

Tensile strenght Rm:	285 N/mm ²
Yeld strenght Rp 0,2:	140 N/mm ²
Elongation L=5d:	18 %

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
Zr	0,10 - 0,20
Si	0,25
Fe	0,40
Cu	0,05
Mn	0,70 - 1,10
Mg	4,5 - 5,2
Cr	0,05 - 0,25
Zn	0,25
Ti	0,15
Be	0,0003
	others each 0,05
	others total 0,15

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