



SAFRA Al.Mg.4,5 Mn.Zr./5087

A.W.S. /ASTM A5.10:
No equivalent material

DIN EN ISO 18273:
S Al 5087
Al Mg4,5 Mn Zr

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.

CHEMICAL COMPOSITION

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

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

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

MINIMAL VALUES OF THE MECHANICAL PROPERTIES (WELDED METAL)

Tensile strenght Rm:	275 N/mm ²
Yeld strenght Rp 0,2:	125 N/mm ²
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