

AL SAFRA Mg3/5754

DESCRIPTION

Wires and rods for welding aluminium basis alloys with maximum 3% Mg. These alloys are suitable for a big range of applications in the construction sector, in general, and in the structural industry. They are corrosion-resistance and show an excellent colour-uniformity after anodizing.

AWS A5.10/A5.10M
ER5754, R5754

EN ISO 18273
S Al 5754 / AlMg3

MATERIALS TO BE WELDED

Al Mg Mn / Al Mg1 / Al Mg2 / Al Mg 2,7Mn / Al Mg 3 / Al Mg 3,5 / Al Mg Si 0,5
Al Mg Si 0,8 / G-Al Mg3 Si

SHIELDING GASES FOR GMAW/GTAW

I1, I2, I3

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

| | |
|-----------------------|-----------------------|
| Tensile strenght Rm: | 190 N/mm ² |
| Yeld strenght Rp 0,2: | 80 N/mm ² |
| Elongation L=5d: | 20% |

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

CHEMICAL COMPOSITION

in%(m/m)^(a)

| | |
|-------------------------|----------------------|
| Al | remainder |
| Si | 0,40 |
| Fe | 0,40 |
| Cu | 0,10 |
| Mn^(b) | 0,50 |
| Mg | 2,6 -3,6 |
| Cr^(b) | 0,30 |
| Zn | 0,20 |
| Ti | 0,15 |
| Be | 0,0003 |
| | others each 0,05 |
| | others total 0,15 |

* More diameters and packaging upon request

[a] Single values shown in the table are maximum values, unless otherwise noted.

[b] (Mn+Cr): 0,10 - 0,6