

AL SAFRA

Mg_{2,7}Mn/5554

DESCRIPTION

The alloy AlMg_{2,7}Mn/5554 has been developed for high temperature applications without becoming sensitive to stress corrosion. The alloy AlMg_{2,7}Mn/5554 is also suitable for welding the basis metal 5454 with the 6000 series. This alloy is recommended for a wide range of applications in the industry in general and in the structural industry, in particular, whenever high temperature processing is needed.

AWS A5.10/A5.10M
ER5554,R5554

EN ISO 18273
S Al 5554 / AlMg_{2,7}Mn

MATERIALS TO BE WELDED

Al Mg Mn / Al Mg₁ / Al Mg₂ / Al Mg_{2,7} Mn / Al Mg₃ / Al Mg Si 0,5
Al Mg Si 0,8

SHIELDING GASES FOR GMAW/GTAW

1, 12, 13

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

Tensile strenght R _m :	215 N/mm ²
Yeld strenght R _{p 0,2} :	100 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

CHEMICAL COMPOSITION

in% (m/m)^(a)

Al	remainder
Si	0,25
Fe	0,40
Cu	0,10
Mn	0,5-1,0
Mg	2,40 -3,0
Cr	0,05-0,20
Zn	0,25
Ti	0,05 -0,20
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.