

Al Mg 3 W/R

EN ISO 18273 - S Al 5754 (AlMg3)
AWS A5.10: ER/R 5754

Characteristics: wrought aluminium alloy for filler metals purposes

Description: aluminium alloy for GMAW and GTAW welding of Al Mg, Al Mn, Al Mg Si and Al Zn Mg alloys with a Mg content up to 3%. Al Mg 3 has good corrosion-resistance and it's frequently used to weld 5xxx and 6xxx series base material that have to be anodized. Very good esthetical results after anodizing (excellent colour match).

Application: construction sector in general, outdoor furnitures (gardens, beach) and structural industry.

Approvals: -

Chemical composition according to EN ISO 18273 [%]:

	Si	Fe	Cu	Mn	Mg	Cr	Zn	V	Ga	Ti	Zr	Al	Be	other each	other total
min.	-	-	-	-	2.60	-	-	-	-	-	-	rem.	-	-	-
max.	0.40	0.40	0.10	0.50	3.60	0.30	0.20	-	-	0.15	-	-	0.0003	0.05	0.15

Remark: maximum value unless shown as a range or a minimum. Mn+Cr 0.10-0.60

Mechanical properties: (as-welded)

min R _m [N/mm ²]	190
Rp 0,2 [N/mm ²]	80
A [%]	20
Solidus [°C]	560
Liquidus [°C]	630

Gas: EN ISO 14175 – I1 (Ar), I3 (Ar-He)

Winding: precision layer wound wire

Polarity: MIG=+ TIG ~

Available sizes:

Wire: diam. 0.80-1.00-1.20-1.60-2.00-2.40-3.17 mm

D100	0,5 kg	plastic spool	
D200	2,0 kg	plastic spool	
D300	7,0 kg	plastic spool	6,0 kg @ d.0.8 mm
BS300	7,0 kg	basket spool	
K415	10 kg	basket ring	
D355	18 kg	plastic spool	
B400	40 kg	basket spool	

Round drum 80 kg – SQUARE173 173 kg

Rods: diam 1.60-2.00-2.40-3.20-4.00-5.00 mm x 1000 mm
10 kg – 5 kg cardboard box

Both wire and rods available in FIDAT boxes or neutral boxes