

SMT-5754H

Aluminum Alloy Filler Metal for welding of
AlMg1, AlMg2, AlMg3, AlMg3.5, AlMgMn, AlMg2Mn0.3, AlMgSi0.5, AlMgSi0.8,
AlMg2.7Mn, etc



❖ PRODUCT SPECIFICATIONS

AWS A5.10 / ASME SFA5.10 ER5754

EN ISO 18273 S Al 5754 (AlMg3)

❖ DESCRIPTION & APPLICATION

Aluminum alloy filler metal with maximum 3% Mg, characterized by Corrosion resistance and outstanding colour-uniformity after anodizing Unlike other alloys with Mg > 3.5%, this alloy is resistant to intergranular Corrosion and stress corrosion cracking after exposure to elevated Temperatures (Over 65 °C) The weld metal is seawater-resistant.

Most common applications of this alloy includes welding of aluminum Alloys up to 3% Mg in :

- the general construction sector and in the structural industry;
- automotive components
- storage tanks;
- ship building;
- etc.

❖ ALL-WELD METAL MECH. PROPERTIES

Tensile strength (Rm) : $\geq 190 \text{ N/mm}^2$ Yield Strength (Rp0.2) : $\geq 80 \text{ N/mm}^2$
Elongation : $\geq 20 \%$

❖ CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
max	max	max	max	2.6	max	max	max	max
0.4	0.4	0.1	0.5	3.6	0.3	0.2	0.15	0.0003

❖ STANDARD PACKING DATA

Welding Process	Ø mm (inches)	Packing type	Weight Kg (lbs)	Length mm (inches)
GMAW (filler wire)	0.80 - 1.20 (0.030 - 0.047)	spools BS300 / D300	7 (33)	N/A
GTAW (filler rod)	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)