

SMT-5556H

Aluminum Alloy Filler Metal for welding of
5xxx alloys such as AlMg4.5Mn, AlMg5, AlMg5Mn, AlMg2.7Mn, AlMgSi1



❖ PRODUCT SPECIFICATIONS

AWS A5.10 / ASME SFA5.10 ER5556

EN ISO 18273 S Al 5556 (AlMg5Mn1Ti) / Al5556A (AlMg5Mn)

❖ DESCRIPTION & APPLICATION

Aluminum alloy filler metal mainly used to weld aluminum Magnesium Base metal alloys with a maximum of 5.3% Mg.

It provides the highest as-welded strengths in fillet welds, offering as well Characteristics of corrosion resistance, toughness, workability and Weld-ability.

Not recommended for elevated temperature service applications.
Non-heat treatable.

This grade may be used for applications such as:

- military industry;
- general constructions and structural industry;
- pressure vessels;
- storage tanks

❖ ALL-WELD METAL MECH. PROPERTIES

Tensile strength (Rm) : $\geq 275 \text{ N/mm}^2$ Yield Strength (Rp0.2) : $\geq 126 \text{ N/mm}^2$
Elongation : $\geq 17 \%$ Charpy-V Impact (R.T.) : $\geq 16 \text{ J}$

❖ CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
Max	Max	Max	0.6	5.0	0.05	Max	0.05	Max
0.25	0.4	0.10	1.0	5.5	0.25	0.2	0.2	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)