

SMT-5356H

Aluminum Alloy Filler Metal
for Welding of 3004,5052,5454,6005 etc. AL-Alloy Steel



❖ Specification

AWS A5.10 **ER 5356**
EN ISO 18273 **S Al 5356 (AlMg5Cr(A))**

❖ Description & Applications

Aluminum alloy filler metal for welding Al-Mg or Al-Mg-Zn aluminum alloys, as well as dissimilar aluminum alloys with maximum 5% of magnesium. Used also for welding Components that shall be anodized. Non-heat treatable. Due to its excellent corrosion resistance, even in seawater, and good Mechanical properties, it is the most known Al welding consumable. Main applications in construction of boats, ships, bicycles, trucks, Pressure vessels, Storage tanks, railways and in the automotive industry

❖ Weldable base materials

Series 5xxx aluminum alloys, Al-Mg and Al-Mg-Zn alloys such as Peraluman 3, 5 and 5 type or Aticorodal 11

❖ All-Weld metal mech. Properties

Tensile Strength (Rm) : $\geq 275 \text{ N/mm}^2$
Elongation : $\geq 17\%$

Yield Strength (Rp0.2) : $\geq 126 \text{ N/mm}^2$
Charpy-V impact (R.T.) : $\geq 16\text{J}$

❖ Chemical Composition

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
max	max	max	0.05	4.50	0.05	max	0.06	max
0.25	0.40	0.10	0.20	5.50	0.20	0.10	0.20	0.0003

❖ Standard Packaging data

Welding Process	Product type	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	1.6 -4.00 (1/16 – 5/32)	Cardboard boxes /tubes	5 (11)	1000 (39.4)

❖ Type approvals

ABS (GMAW) BV (GMAW) CWB (GMAW/GTAW) DB (GMAW) DNV GL (GMAW)
KR (GMAW) LR (GMAW) RINA (GMAW) TUV Nord (GMAW) CE (GMAW)