

SMT-1100

99% Aluminum filler metal available in spools and cut length
for MIG and TIG Welding process



❖ PRODUCT SPECIFICATIONS

AWS A5.10 / ASME SFA5.10 ER1100

EN ISO 18273: Al99.0Cu

❖ DESCRIPTION & APPLICATION

It is a 99% aluminum filler metal available in spools and cut length for MIG and TIG welding processes. SMT-1100 is a softer alloy that is commonly used in architectural and decorative applications on furniture and piping, thin gauge materials and foil products. Its softness makes it easy to shape and form giving it an advantage in decorative work and where attractive weld appearance is critical.

SMT-1100 is used on 1100, 3003 and Alc. 3003 to similar base metals or to 1060, 1070, 1080 and 1350. It is also used extensively as low strength tie wire in chemical baths due to its resistance to weathering and chemical attack.

Its melting range is 643 – 657 °C with a density of .098 lbs/ci.

Its post-anodized color is slightly golden. Typical tensile strength is 13,500 psi

❖ ALL-WELD METAL MECH. PROPERTIES

Tensile strength (Rm) : 75 N/mm² Yield Strength (Rp0.2) : 35 N/mm²
Elongation : 33 %

❖ CHEMICAL COMPOSITION

| Si + Fe | Cu | Mn | Zn | Al (min.) | Be |
|---------|-----------|------|------|-----------|--------|
| 0.95 | 0.05-0.20 | 0.05 | 0.10 | 99.00 | 0.0003 |

❖ STANDARD PACKING DATA

| Welding Process | Ø mm (inches) | Packing type | Weight Kg (lbs) | Length mm (inches) |
|-----------------------|--------------------------------|-------------------------|--------------------|-----------------------|
| GMAW (filler wire) | 0.80 - 1.60 (0.030 - 0.063) | 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) |