

SMT-5183A

Aluminum Alloy Filler Metal
for welding of aluminum alloys



❖ PRODUCT SPECIFICATIONS

AWS A5.10 / ASME SFA5.10 ER5183
EN ISO 18273 S Al 5183

❖ DESCRIPTION & APPLICATION

This is a type of product which can be used in jointing and overlay Processing in the same grade of magnesium of 4.5%. It has good Performance in joining, anti-corrosiveness and mechanics.

Product usage : Pressure vessel of chemical industry, nuclear industry, Ship-building, boiler, space industry, etc.

❖ ALL-WELD METAL MECH. PROPERTIES

Tensile strength (Rm) : $\geq 285 \text{ N/mm}^2$ Yield Strength (Rp0.2) : $\geq 120 \text{ N/mm}^2$
Elongation : $\geq 17 \%$

❖ CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Zn	Be	Ti
0.40	0.40	0.10	0.50 - 1.0	4.3 - 5.2	0.05-0.25	0.25	0.0003	0.15

❖ 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
	0.80 - 1.20 (0.030 - 0.047)	DRUM	40 ~ 80 (88 ~ 176)	N/A
GTAW (filler rod)	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)

❖ APPROVALS

DNV-GL, BV, CE, DB
(Test successfully completed and just wait for final approvals)