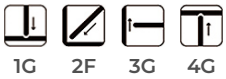
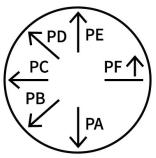
SMT-5183

Classification

AWS A5.10/ ASME SFA-5.10 ER5183
JIS Z 3232 A5183-WY0
EN ISO 18273 S Al 5183 (AlMg4.5Mn0.7(A))

Welding Positions





Features

- ER5183 is a about 5% Magnesium and 0.6% Manganese
- Aluminum filler metal which has high strength, high corrosion resistance, and matches the color well with the parent metal after anodizing.
- Shipbuilding, automobile, railway
- Excellent feedability by controlling impurities

Polarity

DC + (PULSE)

Application Areas

- Railroad cars and transportation equipmen
- pressure vessels

Shielding Gas

Ar

Approvals

CE	DB
✓	✓

Typical Chemical Composition of the Wire (wt%)

Si	Mn	Cu	Cr	Ti	Al	Fe
0.06	0.65	0.02	0.08	0.02	Rem	0.09

Typical Mechanical Properties of All-Weld Metal

Shielding Gas	Tensile Strength MPa(ksi)	Elongation (%)
Ar	281 (40)	40

Diameter / Welding Parameters / Packaging

Wire Diameter mm(in)	Packaging
0.9 (0.035), 1.0 (0.039), 1.2 (0.045), 1.4 (0.052), 1.6 (1/16)	Spool 7kg(15lbs) Spool 2kg(4.4lbs) Spool 0.5kg(1.1lbs)