

SMT-5183

Classification

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

Features

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

Application Areas

- Railroad cars and transportation equipment, pressure vessels

Approvals

CE	DB
✓	✓

Typical Chemical Composition of the Wire (wt%)

Si	Mn	Cu	Cr	Ti	Al	Mg	Zn	W
0.06	0.65	0.02	0.08	0.02	Rem	0.09	4.96	0.03

Typical Mechanical Properties of All-Weld Metal

Tensile Strength MPa(ksi)	Elongation (%)
275 (39)	17

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux

Wire Diameter & Packaging

Wire Diameter mm(in)	Packaging
1.6 (1/16)	5kg(11lbs)*1000
2.0 (5/64)	
2.4 (3/32)	
2.6 (0.10)	
3.2 (1/8)	

SMW

GMW

GTW

FCW

Metal-cored Wire

SAW Wire

SAW Flux