SMT-5183(H)

Type: MIG/TIG

Conformances

AWS A5.10/ ASME SFA5.10 ER5183

EN ISO 18273 S AI 5183 (AIMq4.5Mn0.7(A))

LR WC/I-1S

BV WC

DNV-GL 5183

Applications

· Railroad cars and transportation equipment, pressure vessels

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.
- SMT-5183H is used for shipbuilding, automobile, railway parts industry, etc. because it has excellent feedability by controlling impurities

Welding Position

Current

GMAW: DC+(Pulse)

GTAW: DC-

Shielding Gas

Ar, Ar+He

Diameter / Packaging

Diameter	MIG	TIG
mm (in)	12.5kg (27.6lbs)	5kg (11lbs)
1.0 (0.039)	√	
1.2 (0.045)	√	
1.6 (1/16)	√	\checkmark
2.0 (5/64)		\checkmark
2.4 (3/32)		$\sqrt{}$
3.2 (1/8)		\checkmark

Typical Chemical Composition of the Wire (%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
SMT-5183(H)	0.06	0.09	0.02	0.65	4.96	0.08	0.03	0.02	Rem

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp	CVN-Impact Value
Mpa(lbs/in²)	Mpa(lbs/in²)	(%)	°C(°F)	J (ft·lbs)
-	≥275 (≥39,700)	≥17		