

CLASSIFICATIONS

EN ISO18273 : SAI 5183(AIMg4.5Mn0.7A)
 AWS A5.10 : ER 5183

DESCRIPTION

- WI AI 5183 TIG is Magnesium alloyed Aluminum TIG rod
- It is used for joining of Aluminum alloys including more than 3% Mg
- The weld deposit has a good resistance to atmospheric influences and sea water
- It is recommended that preheating to 150 °C before welding of plates thicker than 15mm
- For gas welding, WI F-AI is recommended
- Shielding gas: Ar

CHEMICAL ANALYSIS OF WELD METAL % (TYPICAL)

Al: rest | Si: <0.4 | Fe: <0.4 | Mn: 0.8 | Mg: 5.0 | Cr: 0.2

MECHANICAL PROPERTIES

Density (kg/dm ³)	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (L ₀ =5d ₀) (%)	Melting Range (°C)	Hardness (HB)
2.6	170	250	20	575 - 585	45

WELDING METHOD

TIG Welding - Gas Welding

WELDING POSITIONS



CURRENT CONDITION

TIG A.C.

OPERATING DATA

Product Code	Diameter x Length (mm) / (inch)		Package Weight (Kg)
1011100112	2.0 x 1000	5/64 x 39"	5
1011100113	2.4 x 1000	3/32 x 39"	5
1011100114	3.2 x 1000	1/8 x 39"	5