SIFMIG 5183
Aluminium MIG Wire

A special aluminium alloy solid MIG wire containing 5% Magnesium and 0.75% Manganese, for improved weld strength and resistance to seawater.

SIFMIG 5183 Aluminium MIG Wire can be used to weld forged and cast aluminium-manganese alloys in applications where high tensile strengths and/or high resistance to seawater are required. Typical applications include ship building, pressure vessel fabrication and general construction. Pre-heating up to 120 °C may be necessary, subject to material size and thickness.

Wire brushing between passes is recommended to ensure the removal of surface oxide build-up. Ensure that the parent metal surface is cleaned and fully degreased before welding. Clean joints with a stainless steel wire brush.

Positions



For use in all positions, except vertical down.

Current	DC=+
Shielding Gas	Pure Argon Argon/Helium

Available Formats

Dia.	6.5kg
1.0mm	WO281065
1.2mm	WO281265

Typical Weld Metal Composition

Mg	5%	Mn	0.75%	Al	Bal
Cr	0.25%	Fe	0.4%		

Typical Mechanical Properties

Melting Point	574°C (solidus) 638°C (liquidus)
Ultimate Tensile Strength	275N/mm^2
Hardness	65

Standards

EN ISO 18273: S Al 5183 (AlMg4.5Mn)

CE