



PRODUCT DATA SHEET

WCD 6415

ALUMINIUM ALLOY SOLID MIG WIRE

AUSTMIG 5183



- ▶ Aluminium-Magnesium-Manganese, Gas Metal Arc (MIG) Welding Wire
- ▶ Precision Layer Wound and Double Shaved for Superb Feedability
- ▶ For Welding of Alloys of the Same Composition

Classifications

AS/NZS 2717.2 E5183

AWS A5.10 - 92 E5183

Description & Applications

AUSTMIG 5183 is a precision layer wound aluminium wire alloyed with Mg, Mn and Cr.

It is recommended for welding Al/Mg material of the 5083 type in the annealed condition, particularly for low temperature applications where good ductility and toughness are required, ie cryogenic plant. It may also be used for welding medium strength Al/Zn/Mg alloys of the 7020 type and joining 5083 alloy to 5456 alloy.

Welding grade Argon or Argon/Helium shielding gas combinations are recommended with flow rates of 10-20 litres/minute.

Operational Data

WIRE SIZE (mm)	WELDING CURRENT RANGE (amps)	ARC VOLTAGE RANGE (volts)*
1.2	150 - 250	20 - 27
1.6	200 - 330	23 - 30

Welding Current DC+

* Voltage is determined by arc current and wire arc length. Welding currents and voltage shown are operational guides only.

Approvals

LRS WC / I-1 S

ABS AWS A5. 10-92 / ER5183

DNV 5183

Typical All Weld Metal Chemical Analysis

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
0.4	0.4	0.1	0.5-1.0	4.3-5.2	0.05-0.25	0.25	0.15	Bal

Packaging Data

WIRE SIZE (mm)	PACK SIZE AND TYPE	PART NUMBER
1.2	6kg	M518312S
1.6	6kg	M518316S

Storage Information

Products should be stored in dry conditions in original sealed undamaged packaging as supplied. The integrity of consumable products can be adversely affected by time and storage conditions and that the detail shown in the batch certificate is true at the time of packaging and is only valid for a LIMITED time. After that time the product may need to be reconditioned or checked to ensure it is suitable for the purpose it is intended to be used for.*

*NOTE: Refer to Welding Technology Institute of Australia (WTIA), technical 3. care and conditioning of arc welding consumables.