

SUPRE GLIDE AL5183

PRODUCT DATA SHEET



PREMIUM QUALITY ALUMINIUM WELDING WIRE



GAS METAL ARC WELDING (MIG) WIRES

SUPRE GLIDE AL5183

- For GMAW welding of wrought and cast aluminium alloys containing magnesium.
- Superior surface cleanliness for improved resistance to porosity.

WIRE ANALYSIS LIMITS:

Single values are maximum allowable, unless otherwise stated.

Si:	0.40%
Fe:	0.40%
Cu:	0.10%
Mn:	0.5-1.0%
Mg:	4.3-5.2%
Cr:	0.05-0.25%
Zn:	0.25%
Ti:	0.15%
Total Others:	0.15%
Al:	Balance

CLASSIFICATIONS:

ISO AS/NZS 18273:	S Al 5183
AWS/ASME-SFA A5.9:	ER5183

TYPICAL ALL WELD METAL MECHANICAL PROPERTIES:

Single-vee butt weld with 5083 Aluminium (reduced section tensile specimen).

WELDING GRADE ARGON:	
0.2% Proof Stress	152 MPa
Tensile Strength	297 MPa
Elongation	16%

APPROVALS:

DNV	GRADE ER5183
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* with welding grade Argon

DESCRIPTION AND APPLICATIONS:

Supre Glide AL5183 is a premium quality Aluminium welding wire that is typically used in the marine and structured industries, where higher strength and good fracture toughness is required.

Supre Glide AL5183 is ideally suited to the welding of Alloy 5083. Supre Glide AL5183 is not suitable for heat treatment.

RECOMMENDED* SHIELDING GAS:

AS 4882:	SG-A SG-AHe-25 SG-HeA-25
ISO 14175 / AWS A5.32:	I1*- CERT SUPPLIED I3 I3
Welding grade Ar or Ar+He (25%) or He+Ar (25%)	

PACKAGING & OPERATING DATA:

These machine settings are a guide only. Actual voltage and welding current used will depend on machine characteristics, plate thickness, run size, shielding gas and operator technique etc. For 5XXX type welding wires use welding current settings on the higher side of the range specified below and arc voltages on the lower side of the range. For 1XXX, 2XXX and 4XXX type welding wires use welding current settings on the lower side of the specified range and arc voltages on the higher side.

WIRE DIAMETER (MM)	VOLTAGE RANGE (VOLTS)	WIRE FEED SPEED (METERS/MIN)	CURRENT RANGE (AMPS)	PACK TYPE*	PACK WEIGHT	PART NO.
0.9	16-22	6.0-17.5	81-180	Spool	7kg	722246
1.0	17-23	6.0-16.5	110-220	Spool	7kg	722247
1.2	20-25	5.5-12.0	150-250	Spool	7kg	722248

* Spool (ø300mm).