

SuperGlaze® MIG 5183

CLASSIFICATION

AWS 5.10	ER5183	A-Nr	-
ISO 18273	S Al 5183 [AlMg4.5Mn0.7(A)]	F-Nr	22
EN 573.3	EN AW-AlMg4.5Mn	Mat-Nr	3.3548

GENERAL DESCRIPTION

Designed to meet the tensile strength requirements of magnesium alloys
For base materials 5083 and 5654

WELDING POSITIONS (ISO/ASME)



PA/1G



PB/2F



PC/2G



PD/4F



PE/4G



PF/3Gu

SHIELDING GASES (ACC. ISO 14175)

I1	Inert gas Ar (100%)
I3	Inert gas Ar+ 0.5-95% He
Flow rate	14.2 - 23.6L/min

APPROVALS

ABS	GL	LR	DB	TÜV	DNV	BV	WIWeb
+	+	+	+	+	+	+	+

CHEMICAL COMPOSITION (W%) TYPICAL WIRE

Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be
bal.	max. 0.4	max. 0.4	max. 0.1	0.5-1.0	4.3-5.2	0.05-0.25	max. 0.25	max. 0.15	max. 0.0003

Notes : Unspecified elements should not exceed a total of 0.15%

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)
Typical values	I1	AW	125-165	270-290	16-25

PHYSICAL PROPERTIES

Melting range	: 568 - 638°C
Density	: approximately 2660 kg/m ³

APPLICATIONS

Marine fabrication and repair	Military Industry
Cryogenic tanks	Railway & Automotive Industry
Shipbuilding and other high strength structural aluminium applications	Trailer Industry and Offshore

PACKAGING AND AVAILABLE SIZES

Diameter (mm)	0.8	1.0	1.2	1.6	2.4	Other sizes and packaging on request
0.5 kg plastic spool S100	X	X	X	X		
726 kg spool S300	X	X	X	X	X	
70 kg spool BS300	X	X	X	X	X	
23-27 kg wooden reel		X	X	X	X	
136 kg Accupak				X		
159kg wooden reel		X	X	X	X	
227 kg wooden reel		X	X	X	X	

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All information in this data sheet is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.
Fumes: Material Safety Data Sheets (MSDS) are available on our website.