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/mm²)	Tensile strength (N/mm²)	Elongation (%)
Typical values	I1	AW	125-165	270-290	16-25

PHYSICAL PROPERTIES

Melting range : 568 - 638°C
Density : approximately 2660 kg/m³

APPLICATIONS

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

PACKAGING AND AVAILABLE SIZES

Diameter (mm)	0.8	1.0	1.2	1.6	2.4
0.5 kg plastic spool S100	X	X	X	X	
7.26 kg spool S300	X	X	X	X	X
7.0 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

Other sizes and packaging on request

Superglaze® MIG 5183: rev. C-EN24-01/02/16

LINCOLN ELECTRIC
THE WELDING EXPERTS®