

LNMAIMg4.5Mn

CLASSIFICATION

AWS 5.10/5.10M - ER5183
 ISO 18273 - S Al 5183 (AlMg4.5Mn0.7(A))
 EN 573.3 - EN AW-AlMg4.5Mn
 AA - 5183
 Werkstoff 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/3G up
						

SHIELDING GASES (ACC. ISO 14175)

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

APPROVALS

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

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/m³

MATERIAL TO BE WELDED

Refer to "Filler Metal Guide for Aluminium"

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)	1.0	1.2	1.6
Unit : 7.0 kg spool B300	X	X	X

Other sizes and packaging on request

LNMAIMg4.5Mn: rev. EN 22