

LNM AlMg 4.5MnZr

Aluminium wire

Classification

ISO 18273-01 : Al 5087

General description

Solid wire for welding of high strength aluminium alloys and low temperature applications (-196°C)
Zr added to increase hot cracking resistance and improve structure

Shielding gases (acc. EN 439)

GMAW	I1	Inert gas Ar (100%)
	I3	Inert gas Ar+ >0-95% He

Approvals

	DB	TÜV
GMAW	+	+

Chemical composition (w%), typical, wire

Al	Mn	Si	Ti	Mg	Zn	Cr	Zr
bal.	0.8	0.2	0.15	4.5	0.15	0.15	0.1

Mechanical properties, typical

	Process	Shielding gas	Condition	0.2% Proof strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)
Typical values	GMAW	I1	AW	140	300	30

Physical properties

Melting range 568 - 638°C
Density approximately 2400 kg/m³

Materials to be welded

Material	Code	Type	W.Nr.	Int.Reg.Nr.	Int.Cast.Nr.
Aluminium wrought alloys	DIN 1725-1	Al Mg 3	3.3535	5754	
		Al Mg 4,5 Mn	3.3547	5083	
		Al Mg 5	3.3555	6082	
		Al Mg Si 1			
Aluminium cast alloys	DIN 1725-2	G-Al Mg 3	3.3541		
		G-Al Mg 3 Si	3.3241		512.0
		G-Al Mg 5	3.3561		B 535.0
		G-Al Mg 5 Si	3.3261		

Packaging

Process	Unit	Sizes (mm)		
		1.0	1.2	1.6
GMAW	7 kg spool B300	X	X	X

Other sizes and packaging on request

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