

Aluminium wire

Classification

AWS A5.10	:ER5183
ISO 18273	:S Al 5183 (AlMg4.5Mn0.7)

General Description

Solid wire for welding of high strength aluminium alloys and low temperature applications (-196°C)

Excellent feedability and very consistent welding performance.

Tight and stable arc.

Also available in 90 kg WUTPACK®Mini, that increases productivity by reducing time to change spools.

Shielding gas (acc. EN)

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

Approvals

	ABS	BV	DNV	GL	LR	TÜV
GTAW						+
GMAW	WC	WC	5183	S AlMg4.5Mn	+	+

Chemical composition (w%), typical, all weld metal

Al	Mn	Si	Ti	Mg	Zn	Cr	Fe	Cu
rest	0.8	0.09	0.02	4.5	0.15	0.15	0.14	0.02

Mechanical properties, all weld metal

	Process	Shielding gas	Condition	0.2% Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Impact (ISO), J		Hardness HB
							+20°C	-60°C	
Typical values	GTAW	I1	AW	150	290	25			
after welding	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 Si 3	3.3535	5754	
		Al Mg Si 4.5 Mn	3.3547	5083	
		Al Mg Si 5	3.3555	6082	
		Al Mg Si 1			
Aluminium cast alloys	DIN 1725-2	G-Al Mg 3	3.3541		512.0
		G-Al Mg 3 Si	3.3241		B 535.0
		G-Al Mg 5	3.3561		
		G-Al Mg 5 Si	3.3261		

Packaging, available sizes and identification

Process	Unit:	Sizes, mm							
		0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0
GTAW	5 kg tube				X	X	X	X	X
GMAW	7.6 kg plastic spool S300	X	X	X	X				
	7.0 kg basket spool BS300	X	X	X	X				
	90 kg WUTPACK®Mini			X					

Other sizes and packaging on request

Identification	Imprint: Reval®5183	Tip colour:
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Reval®5183 : rev.EN 20