

Product Data Sheet

G 'Gas-shielded metal-arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
Mats Linde	Tero Tolonen	Michael Spieß	EN006209	EN005648	2013-09-12	1 (2)

REASON FOR ISSUE

Approval and mechanical data update.

GENERAL

Continuous solid wire suitable for welding of aluminium alloys with up to approx. 5 % Mg that are not age-hardenable and alloys where a higher tensile strength is required. The corrosion resistance in marine atmosphere is high.

Shielding Gas: I1, I2, I3 (EN ISO 14175) Alloy Type: AlMgMn

SFA/AWS A5.10 ER5556 ABS ER5556 EN ISO 18273 S AI 5556A (AIMo5Mp1Ti) CW/B AWS A5 10	CLASSIFICATIONS	S Wire Electrode	APPROVAL	S
	SFA/AWS A5.10	ER5556	ABS	ER5556
	EN ISO 18273	S AI 5556A (AlMg5Mn1Ti)	CWB	AWS A5.10

CHEMICAL COMPOSITION

	Min Max 0.25 0.50 1.0 0.05 0.20 0.10				
	Min	Max			
Si Mn Cr Cu Al Ti Zn Fe Be Mg Other each Others tot		1.0 0.20			

MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

Properties	As welded Typ
Rp0.2 (MPa)	145
Rm (MPa)	295
A4-A5 (%)	25

Comments:

THIS INFORMATION IS BASED ON DATA DEVELOPED UNDER LABORATORY CONDITIONS AND IS DESIGNED AS A GUIDELINE ONLY. INDIVIDUAL CONDITIONS, WELDING EQUIPMENT AND ENVIRONMENT CAN AFFECT RESULTS.



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ECONOMICS & CURRENT DATA												
Dimension (mm)	Curre	ent (A)	W	η	I	н		Fe	ed		U	
Ø	Min	Мах	Nom	Nom	Min	Ма	x	Min	Max	Min	Max	
1.0	90	210	16							15	26	
1.2	140	260	19							20	29	
1.6	190	350	25							25	30	
2.4	280	400	30							26	31	
W = Gas cor	nsumpti	ion (l / m	nin)									
η = Recove	ry, g we	eld meta	l / 100g	wire (%)								
H = Deposit	rate (k	g weld n	netal / ho	our arc ti	me)							
Feed = Feeding	•	•			,							
U = Arc volt	age (V)											
	,											

OTHER DATA

Preheating: is not required for welds in sections up to 20 mm but risk of porosity can be reduced by preheating sections over 10 mm. Preheating temperature is usually 150-200 °C.

Clean material is essential for a good weld quality. Remove oxide, dirt, oil, humidity etc. before welding. If brushing use a stainless steel wire brush.