

Product Data Sheet

OK Autrod 5087

G 'Gas-shielded metal-arc welding'

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
Mats Linde	Tero Tolonen	Michael Spieß	EN006186	EN005123	2013-08-29	1 (2)

REASON FOR ISSUE

DNV deleted and comment to mechanical data added.

GENERAL

Continuous solid wire suitable for welding of aluminium alloys with up to 5 % Mg and alloys where a higher tensile strength is required. The alloying element Zr gives improved properties against hot cracking during solidification.

Shielding Gas: I1,	I2, I3 (EN ISO 14175)	Alloy Type: AIMgN	⁄In	
CLASSIFICATIONS Wire Electrode		APPROVALS		
SFA/AWS A5.10 EN ISO 18273	ER5087 S Al 5087 (AlMg4,5MnZr)	CE DB VdTÜV	EN 13479 61.039.07 05816	

CHEMICAL COMPOSITION

Wire/Strip (%)

	Min	Max
Si Mn Cr Cu	0.7 0.05	0.25 1.1 0.25 0.05
Al Ti Zr Zn Fe	0.10	0.15 0.20 0.25 0.40
Be Mg Other each Others tot	4.5	0.0003 5.2 0.05 0.15

MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

Properties	As welded Typ
Rp0.2 (MPa)	130
Rm (MPa)	280
A4-A5 (%)	30

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)	Current (A)		W	η	Н		Feed			U
Ø	Min	Max	Nom	Nom	Min	Max	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

W = Gas consumption (I / min)

η = Recovery, g weld metal / 100g wire (%)H = Deposit rate (kg weld metal / hour arc time)

Feed = Feeding rate (m/min)

U = Arc voltage (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.