

ALLOY 5087 | AlMg4.5MnZr

KEY FEATURES

- Designed to meet higher tensile strength requirements
- For base metals with a max. of 5% Mg
- The presence of Zirconium produces a fine-grained weldmetal microstructure
- Reduced tendency of solidification cracking in highly restrained welds

ADVANTAGES

- All-position aluminum MIG wire
- Superior wire surface finish for the best feedability and arc performance
- Optimal manufacturing process to precisely control chemical composition
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire
- Manufactured under a quality system certified to ISO 9001 standard

TYPICAL APPLICATIONS

- Marine fabrication and repair
- Cryogenic tanks
- Shipbuilding and other high strength structural aluminum applications
- Railway Industry
- Offshore Industry

CONFORMS TO

- AWS/ASTM A5.10/A5.10M: 2012
- EN ISO 18273:2004

SHIELDING GAS

- 100% Argon
- Argon/Helium Mixtures
- Flow Rate: 30 - 50 CFH (14.2 - 23.6 L/min)

PACKAGING

WIRE DIAMETER inches (mm)	PLASTIC SPOOL				BASKET SPOOL	ACCUPAK	ROD DIAMETER inches (mm)	TIG BOX	
	1 LB (0.45 KG)	5 LB (2.26 KG)	16 LB (7.26 KG)	20 LB (9 KG)	15.43 LB (7 KG)	300 LB (136KG)		10 LB (4.54 KG)	22.05 LB (10 KG)
0.030" (0.8 mm)	✓	✓	✓	✓	✓	✓	1/16" (1.6 mm)	✓	✓
0.035" (0.9 mm)	✓	✓	✓	✓	✓	✓	5/64" (2.0 mm)	✓	✓
0.040" (1.0 mm)	✓	✓	✓	✓	✓	✓	3/32" (2.4 mm)	✓	✓
3/64" (1.2 mm)	✓	✓	✓	✓	✓	✓	1/8" (3.2 mm)	✓	✓
1/16" (1.6 mm)	✓	✓	✓	✓	✓	✓	5/32" (4.0 mm)	✓	✓
							3/16" (4.8mm)	✓	✓

See AccuPak Payoff Accessories Pg.25

CHEMICAL COMPOSITION

ALUMINUM ASSOCIATION	5087
AWS/ASTM A5.10 /A5.10M: 2012	ER5087 R5087
ISO 18273:2004 Numeral	S Al 5087
ISO 18273:2004 Chemical	AlMg4.5MnZr
EN 573-3	EN AW-AlMg4.5MnZr

CHEMICAL COMPOSITION (%)		TYPICAL RESULTS
Al	Remainder	Remainder
Si	≤0.25	0.06
Fe	≤0.40	0.11
Cu	≤0.05	0.005
Mn	0.7-1.1	0.75
Mg	4.5-5.2	4.8
Cr	0.05-0.25	0.08
Zn	≤0.25	0.005
Zr	0.10-0.20	0.13
Ti	≤0.15	0.02
Be	≤0.0003	< 0.0003

APPROVALS

DB	DEUTSCHE BAHN	61.191.04
LR	LLOYD'S REGISTER	WC/I-3
GL	GERMANISHER LLOYD	R Al Mg 4.5
TÜV	TECHNISCHER UBERWACHUNGS-VEREIN	

See Product Approval Chart Pg.21