

## Classifications

<b>EN ISO 18273</b>	<b>AWS A5.10</b>
S Al 5087 (AlMg4.5MnZr)	ER5087

## Characteristics and typical fields of application

Zirconium micro-alloyed aluminium TIG rod. The weld metal is uncritical in terms of hot cracks. Suitable especially for complicated welding constructions with critical tensions. Base material should be cleaned near the seam. Pre-heating 150 °C for plates > 15 mm

## Base materials

AlMg 4.5 Mn	3.3547	EN AW-5083 [AlMg 4.5 Mn 0.7]
AlMg 4 Mn	3.3545	EN AW-5086 [AlMg 4]
AlMg 5	3.3555	EN AW-5019 [AlMg 5]
AlMgSi 0.5	3.3206	EN AW-6060 [AlMgSi]
AlMgSi 0.7	3.3210	EN AW-6005A [AlSiMg(A)]
AlMgSi 1	3.2315	EN AW-6082 [AlSi 1 MgMn]
AlMg 1 SiCu	3.3211	EN AW-6061 [AlMg 1 SiCu]
AlZn 4.5 Mg 1	3.4335	EN AW-7020 [AlZn 4.5 Mg 1]
G-AlMg 5	3.3561	EN AC-51300
G-AlMg 5 Si	3.3261	EN AC-51400

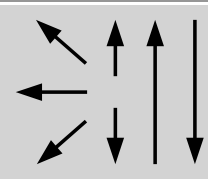
## Typical analysis of solid wire (wt.-%)

	Al	Mn	Cr	Mg	Zr	Ti
wt.-%	bal.	0.7 – 1.1	0.05 – 0.25	4.5 – 5.2	0.1 – 0.2	< 0.15

## Mechanical properties of all-weld metal

Condition	Yield strength $R_{p0.2}$	Tensile strength $R_m$	Elongation A ( $L_0=5d_0$ )
	MPa	MPa	%
u	≥ 140	≥ 185	≥ 18
u	untreated, as welded		

## Operating data

	<b>Polarity:</b> AC	<b>Shielding gases:</b> (EN ISO 14175) I1  Base material should be cleaned near the seam. Pre-heating 150 °C for plates > 15 mm	<b>ø (mm)</b>
			1.6
			2.0
			2.4
			3.0

## Approvals

DB (61.014.06), CE