

ALUROD AlMg4.5MnZr is a 5087 type aluminum solid TIG welding rod depositing Al-4.5Mg0.8Mn0.1Zr weld metal. Suitable for use with Ar, or Ar+He mixed shielding gases.

ALUROD AlMg4.5MnZr is suitable for the welding of Al 3-5% Mg alloys.

The weld metal has an excellent resistance to hot cracking due to the zirconium addition. Zr promotes grain refinement and improves the mechanical properties and corrosion characteristics.

For special request ALUROD AlMg4.5MnZr is available with LRS (Lloyd's Register) approval.

Classification	Approvals	Grade
EN ISO 18273: S Al 5087 (AlMg4,5MnZr)	DB	●
	TÜV	●

## Chemical analysis (Typical values in %)

Al	Si	Mn	Mg	Cr	Zr	Ti	Cu	Fe
Rem	2	0.9	4.5	0.1	0.15	0.1	0.02	0.1

## All-weld metal Mechanical Properties

Heat Treatment	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation A5 (%)
As Welded	≥ 125	≥ 275	≥ 17


Gas test: 100% Ar

**Shielding Gas** - EN ISO 14175 : I1

## Materials

AlMg3; AlMg5; AlMgMn; AlZn4,5Mg1; AlZnMg4,5Mn; AlMgSiCu

G-AlMg3Si; G-AlMg5Si; G-AlMg10

Storage	Current condition and welding position
Keep dry and avoid condensation	AC
	

## Packaging data

Diam. (mm)	Packaging Type	Weight (kg)	Code
1.6	TUB	5	W000273546
2.0	TUB	5	W000273544
2.4	TUB	5	W000273542
3.2	TUB	5	W000273545
4.0	TUB	5	W000273543