

Aluminium Alloys (Filler Rods & Wires)

SM 5087



 **SENOR[®]**
One Stop Solution for Welding & Brazing Consumables

SM 5087

Aluminum Magnesium

Al Filler Metal

Classifications:

AWS / SFA5.10 : ER 5087
UNS No. : A95087
ISO 18273 Designation : AlMg4.5MnZr
ISO 18273 Numerical : Al5087
ISO 18273 Chemical : AlMg4.5MnZr

Description:

Senor SM 5087 is suitable for the welding of aluminium alloys upto 5% Mg and alloys where a higher tensile strength is required. The alloying element, Zirconium, gives improved properties against hot cracking during solidification.



Technical Data:

UTS : 25-28 Kgf/mm²
YS : 11-13Kgf/mm²
Elongation (L=D) : 17%
Melting Range : 565-638°C
Density : 2.66 gms/cc
Resistance to Corrosion : A (Gen)
Anodize Color : White
Shielding gas : 100% Argon , Argon/Helium Mixtures , Flow Rate: 30 - 50 CFH (14.2 - 23.6 L/Min)

Chemical Composition (%):

Si	Iron	Cu	Mn	Mg	Cr	Zn	Ti	Be	Zr	Al	Other Total
0.25	0.40	0.05	0.7-1.1	4.5-5.2	0.05-0.25	0.25	0.15	0.0003	0.10-0.20	Rem.	0.15

Typical Applications:

- Marine Fabrication
- Railway Industry

Availability :

Standard Size : 1.6, 2.0, 2.5, 3.2 & 4.0 mm dia in 500 / 1000 mm length
Packing : 500 mm in 2 kg. & 1000 mm in 5 kg. for TIG welding
Spools : 0.8, 1.2 & 1.6 mm dia in 6.5 kg. spool for MIG welding

Note On Usage:

- 1) Follow the recommended welding parameters to achieve good sound welds
- 2) Do not use excessive currents. Hold short arc. Use good fit-up on joints.

Above are basic guidelines and will vary depending on joint design, number of passes and other factors.

⚠WARNING

Protect yourself and others. Read and understand this warning. Do not remove this warning.

Fumes and Gases can be hazardous to your health

- Before use, read and understand the Material Safety Data Sheet (MSDS), the manufacturer's instructions, and your employer's safety practices.
- If MSDS is not enclosed. Obtain from your employer.
- Keep your head out of the fumes. See Section 5 of the MSDS for specific fume concentration limits.
- Use enough Ventilation, exhaust at the arc, or both, to keep fumes and gases from your breathing zone and the general area. If needed, use a proper respirator.
- No hazards exist before this product is used in arc welding.

Electric Shock can kill

- Always wear dry insulating gloves
- Insulate yourself from work and ground.
- Do not touch live electrical parts.

ARC Rays can injure eyes and burn skin

- Wear welding helmet with correct filter.
- Wear correct eye, ear, and body protection.

Welding can cause fire or explosion

- Do not weld near flammable material.
- Watch for fire, keep, extinguisher nearby.

Read American National Standards Z49.1, "Safety In Welding, Cutting and Allied Process." from American Welding Society.