

Aluminium Alloys (Filler Rods & Wires)

SM 1070



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

SM 1070

Aluminum Low Alloyed

Al Filler Metal

Classifications:

AWS / SFA5.10	: ER 1070
DIN 1732	: Al-99.7
ISO 18273 Numerical	: Al1070
ISO 18273 Chemical	: Al-99.7

Description:

Senor SM 1070 is pure aluminum wire and has good corrosion resistance, high electrical and thermal conductivity. The strength of the welded joint is not high. This is suitable for welding of unalloyed aluminum.

Technical Data:

UTS	: 10 (max) Kgf/mm ²
YS	: 3 Kgf/mm ²
Elongation (L=D)	: 25 (min)
Melting Point	: 565-638°C
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	Zn	Al	Ga V	Ti	Be	Other Each	Other Total
0.20	0.25	0.04	0.03	0.03	0.04	99.70	0.05	0.03	0.0003	0.03	-

Typical Applications:

- Suitable for electrical and chemical application utilizing little or no alloying elements.
- Joining 1XXX alloys
- Buss bars
- Electrical Boxes
- Heat Exchangers
- Metalizing, Electrical, Chemical, Construction and Food 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.