Aluminium Alloys (Filler Rods & Wires) SM 5556















SENOR®

SM 5556

Aluminium Magnesium

Al Filler Metal

Classifications:

 AWS / SFA5.10
 : ER 5556

 UNS No.
 : A95556

 ISO 18273 Numerical
 : AI5556

 ISO 18273 Chemical
 : AIMg5Mn1Ti

Description:

Senor SM 5556 has excellent resistance to sea water corrosion. Suitable for anodizing. This is recommended for welding 5083, 5086 and 5456 high tensile aluminum alloys.

Technical Data:

UTS : 26-28 Kgf/mm² **YS** : 10-13 Kgf/mm²

Elongation (L=D) : 17%

Melting Range : 568-635°C

Density : 2.65 gms/cc

Resistance to Corrosion : A (Gen) B (SCC)

Anodize Color : White Electrical Conductivity : 29% IACS

Shielding Gas : 100% Argon, Argon/Helium Mixtures, Flow Rate: 30 - 50 CFH (14.2 - 23.6 L/Min)

Chemical Composition (%):

SI	Fe	Cu	Mn	Mg	Cr	Zn	Be	Ti	Al	Other Total
0.25	0.40	0.10	0.05- 0.10	4.70- 5.50	0.05- 0.20	0.25	0.0003	0.05- 0.20	Rem.	0.15

Typical Applications:

- Bridge storage tanks
- Truck frames
- Marine and structural industry
- Automotive Components

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

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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.



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.