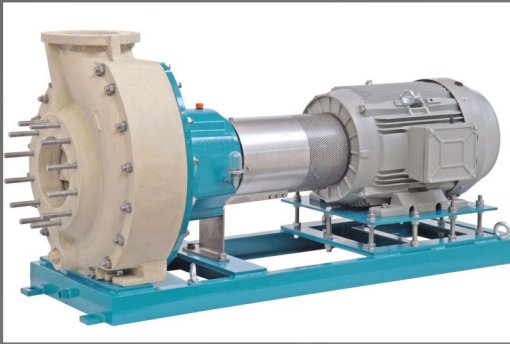


# Low-Heat Input Welding Alloys

## SME E12



 **SENOR<sup>®</sup>**  
One Stop Solution for Welding & Brazing Consumables

## Low-Heat Input Welding Alloys

### Alloys:

Cu, Ni, Mn, Ti

### Characteristics :

SME 12 weld deposit is resistant to the action of sea water, free of porosity and crack- resistant. Slag removal is easy. Weld beads are shining and uniform.



### Technical Data :

UTS : 35-45 kgf/mm<sup>2</sup>  
Elongation (L = 5d) : 20-26%  
Impact energy (CVN at 20°C) : 85 J

### Applications :

1. Suitable for Shipbuilding, food industry, desalinization plants, refrigerators, heat exchangers
2. Welded joints and hard-surfacing on similar grades of copper-nickel alloys, with up to 30% nickel content.

### Welding Current : DC (+)

Size (~ mm)/ Length	2.5 x 350	3.2 x 350	4.0 x 350
Current (amps)	60 - 80	90 - 105	110 - 130

### Availability:

Standard Size: 5.0, 4.0, 3.2 and 2.5 in 350 mm length  
Packing: 2 , 5 Kg.

## **Note On Usage:**

1. Clean the area to be welded and make it dirt or oil free .
2. Preheat sections more than 25 mm to 150°C.
3. Bevel out 90°U .
4. Deposit stringer beads and chip slag between passes.
5. Do not exceed recommended Welding Parameters.

**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.**