

TECHNICAL DATA SHEET

Alloy designation in accordance with ISO 9453:2014	Sn63Pb37E*
Other known alloy markings	S-Sn63Pb37E*
Product type	Cored solder wire (with flux)
Flux	SW26

* higher cleanliness class

1. General characteristics

The product is intended for professional use. The solder Sn63Pb37E* was produced in the first smelt of tin and lead. The composition of the solder complies with the ISO 9453:2014 standard. SW26 solid flux is based on rosin and halide formulations. It is basic leaded alloy for manual, automatic and robotic processes used in industrial applications in electronics and electrical engineering, where meeting the requirements of the RoHS2 Directive is not required.

2. Chemical characteristics

- 2.1. Tin content: 63,0 ± 0,5%
- 2.2. Lead content: rest
- 2.3. Composition and permissible impurities according to ISO 9453:2014:

Sn	Pb	Sb	Bi	Cu	Au	In	Ag	Al	As	Cd	Fe	Ni	Zn	others
62,5	rest	0,05	0,05	0,08	0,05	0,10	0,10	0,001	0,03	0,002	0,02	0,01	0,001	
-														
63,5														

3. Physical characteristics

- 3.1. Melting point: (solidus/liquidus): 183 °C
- 3.2. Density: 8,40 g/cm³
- 3.3. Electrical conductivity: 0,145 μΩm
- 3.4. Thermal conductivity: 50 W/m K
- 3.5. Tensile strength: 525 kgf/cm²
- 3.6. Elongation at break: 37 %
- 3.7. Hardness: 17 HB
- 3.8. Suggested operating temperatures (values that can be the starting point for process settings):
 - Soldering tip temperature: 340 - 400 °C

4. SW26 flux

SW26 flux assures good solderability in popular basic soldering applications in all branches of industry. Cored solder wire works on most metal surfaces excluding aluminum, its alloys and stainless steel. If it necessary, use alcohol-based solvents to wash the residue.

- 4.1. Flux type: 1.1.2B (acc. to EN ISO 9454)
 ROL1 (acc. to IPC-J-STD-004B)
 SW-26 (acc. to DIN 8511)
- 4.2. Flux content: 2,5 ± 0,2%; 3 cores of flux (1 core of other flux content on request)
- 4.3. Halide content: < 0,5 %
- 4.4. Acid Value: 215 ± 10 mg KOH/g
- 4.5. SIR test (PN-EN ISO 9455-17): no data available

5. Product description

- 5.1. Available diameters: • 0,25 • 0,38 • 0,50 • 0,56 • 0,70 • 0,80 • 0,90 • 1,00 • 1,20 • 1,50 • 1,60 • 2,00 • 2,50 • 3,00 • 4,00 mm (other on request)
- 5.2. Packed: • 120 pcs / 6 kg (50 g reels) • 60 pcs / 6 kg (100 g reels) • 5 kg (250 g and 500 g reels) • 10 kg (1 kg reels) cartons (other on request)
- 5.3. Reels and cartons marked with alloy type, flux type, diameter, net weight and batch number.

6. Storage

- 6.1. In original packaging at 5-20°C.
- 6.2. The recommended humidity level is 20-60%.
- 6.3. Keep away from strong oxidizing agents, acids, alkaline agents and beyond the reach of children
 Expiration date - three years from the end of the year of production
 for example: batch 61112233 = date of production 2016, date of expiry 2019