

SOLDER PASTES • SOLDER WIRES & BARS • SOLDERING FLUXES • SOLDER POWDERS

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	SW21

^{*} 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. SW21 is organic, water-soluble based, halide activated flux. The solder is soldering most metals except aluminum and stainless steel. 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: $63.0 \pm 0.5\%$ 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

3.8. Suggested operating temperatures (values that can be the starting point for process settings):

Soldering tip temperature: 340 - 400 °C

4. SW21 flux

Organic, water-soluble based, halide activated flux. Special flux composition offers good solderability on various metal surfaces excluding aluminum and its alloys. Residues of flux after soldering are water washable if cleaning is necessary or required. The flux is exceptionally well suited for flame soldering.

4.1. Flux type: 2.1.2B (acc. to EN ISO 9454)

ORH1 (acc. to IPC-J-STD-004B) SW-25 (acc. to DIN 8511)

4.2. Flux content: 2,0 ± 0,2%; 3 cores of flux (1 core or other flux content on request)

4.3. Halide content: > 2,0%
4.4. Acid Value: not applicable
4.5. SIR test (PN-EN ISO 9455-17): no data

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 carton's 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

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