



DESCRIPTION

RSN 70 no-clean solder paste is carefully formulated in MBO laboratories to confer high activity soldering and yet, leaves very low, clear, benign residues.

This product, suitable for screen printing, meets the international requirements of the electronics industry.

- **ROL0 regarding standard J-STD-004**
- Halide free.
- High activity.
- Low and safe residues.
- Fast print capabilities (up to 120mm/s).
- Long abandon time (8 hours).
- Long stencil life (8 hours).
- « Fine pitch » (400µm) and « ultra-fine pitch » (<300µm) capabilities.
- Available powder sizes : type 3, 4 and 5. Other : consult us.

No clean **RSN 70** solder paste is manufactured in strict compliance with the international standards.

RSN 70 solder paste is suitable for "**Pin in Paste**" applications.

AVAILABLE ALLOYS

<i>Alloy</i>	<i>Alloy Number ISO 9453 (2014)</i>	<i>Melting point (°C)</i>	<i>Metal content (%)</i>	<i>Viscosity (Pas) Malcom 10 rpm</i>
Sn62Pb36Ag2	171	179	89-90	150 - 200
Sn63Pb37	101	183	89-90	150 - 200
Other : consult us				



TECHNICAL DATA

Category	Standard	Results
Activity Level (classification)	IPC J-STD-004	ROL0
Halide Content	IPC J-STD-004	Halide free (by titration)
Copper Mirror	IPC-TM-650 (2.3.32) /J-STD-004	Pass (no evidence of corrosion)
Silver Chromate	IPC-TM-650 (2.3.33)	Pass
Surface Insulation Resistance Test (SIR)	GR 78 Core Section 13, 13.1.3	Pass, 1×10^{12} ohms
Electromigration Resistance Testing	GR-78-Core Section 13.1.4	Pass, $>1 \times 10^{10}$ ohms
Visual aspect of residues	IPC-HDBK-005	Clear
Viscosity	Malcom spiral viscometer (J-STD-005)	180 Pa.s (Sn63Pb37 90-3)
Solder ball test	IPC J-STD-005	Acceptable

PRINTING

Solder Paste use: When the solder paste is at room temperature (approximately 4 hours after the release of the fridge), manually stir it vigorously with a spatula for about thirty seconds before deposit it on the printing screen for a proper activation.

To avoid waiting for the solder paste warm-up, an automatic mixer dedicated to the solder paste can be used right out of the fridge. In this case, the increase of the temperature and stirring of the solder paste are performed simultaneously.

For any reuse of solder paste, a new activation of it is necessary.

Stencil

Stainless steel, brass or nickel. Chemical cut, laser cut or electroformed.

Squeegee

Stainless steel (recommended) or 80-100 durometer polyurethane.

Print speed

30-120 mm/s. Best results : 40 to 100 mm/s.

Squeegee pressure

0.15-0.3 Kg/cm of squeegee length

Snap-off

0 to 0.25mm. On contact printing is preferred.

Ambient conditions

20-30°C and 35% to 70% RH. Minimize exposure of solder paste direct to air flow.



REFLOW

Heating Methods

Convection, infrared, vapour phase, hot plate, hot bar, laser and others. Aerobic or inerted.

Heating Profile

See suggested reflow profile.

Cleaning Equipment

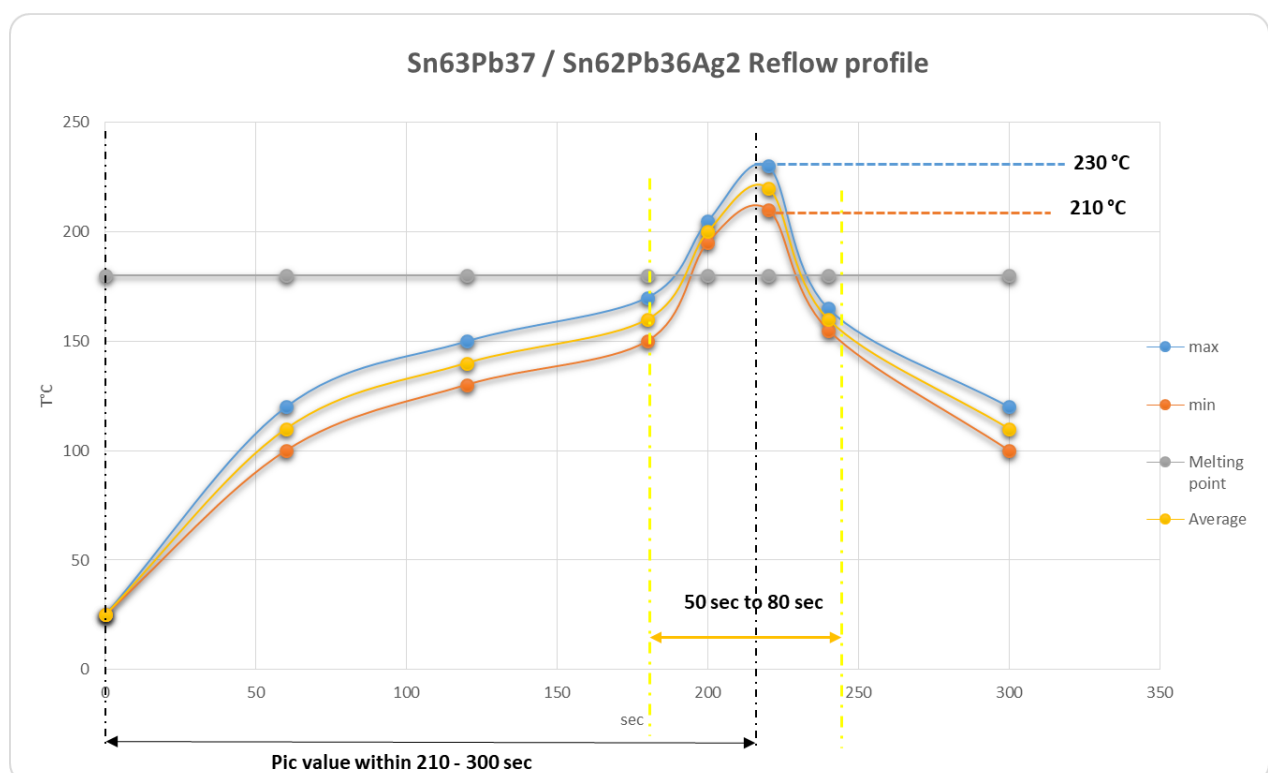
Spray, immersion, vapour degreaser or scrubber.

Cleaning solvents

Most stencil cleaners, stencil wipes and saponifiers. Although this product is no-clean , if a cleaning card is required, the use of **ZESTRON products (VIGON A200, A201, N600 ...)** gives excellent results and is especially recommended .

Temperature : 35-60°C.

Spray Pressure : 20 to 40 psi.





STORAGE AND PACKAGING

Packaging: jars of 250g, 500g - cartridges of 500, 700 and 1000 g - Proflow® of 800g - others on request.

Storage: Must be stored between 5 and 10°C for up to 12 months. In that case, wait until the jar has reached the ambient temperature before opening to avoid water condensation on the surface of the paste. Once opened, do not return to the fridge if all the jar is consumed in 5 days. Can stay up to one week at ambient temperature.

Additional information:

Our manufacturing processes have been subjected to FMECA analysis (equivalent of AMDEC in France).

We cannot anticipate any and all conditions and situations under which the information and our products or the combination of both with others will be used. We do not assume any liability in the safety and suitability of our products alone or in combination with others. Users must make their own tests to determine the safety and suitability of each product used alone or with other products for their own use. Except any previous written agreement, our products are sold without guarantee and customers must assume all liability for any loss or damage suffered by themselves or by third parties, either from handling or use of our products alone or with others. In case of any difference or variation seen during the use of the products we request that you contact our technical department.