



ESL EUROPE

SOLDER PASTES &
THICK-FILM MATERIALS

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SOLDER PASTE

NC-3703-G

Lead-free*

NC-3703-G is a solder paste with a rosin based mildly activated, flux system. This solder paste exhibits good printing properties and enables surface mounting of components to printed circuit boards and hybrid circuits. NC-3703-G uses standard 96.5Sn / 3.5Ag alloy powders.

It is recommended that this solder paste is stored in a tightly closed jar in a dry environment at room temperature. Printed boards should also be stored in a dry environment.

PASTE DATA

Rheology:	Screen-printable paste
Viscosity: (Brookfield RVT D, Helipath Stand, 5 rpm, TF spindle, 25.5 ± 0.5 °C)	650 ± 50 Pa.s
Solids:	90 ± 0.5 %
Shelf Life: (at 20 °C)	6 months

PROCESSING

Screen Mesh, Emulsion:	Screen 80 S/S, 150 - 200 µm Stencil: Laser cut, nickel formed or etched S/S 120 - 200 µm
Reflow Temperature Range:	> 250 °C in air
Thinner:	ESL 401
Flux Removal:	The residues can be removed using standard flux or saponifier cleaning methods. See notes on page 2.

ESL Europe NC-3703-G 0507-D

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See Caution and Disclaimer on next page.

TYPICAL PROPERTIES

(175 ± 25 µm wet print thickness)

Approximate Coverage:	12.5 cm ² / g
Printing Resolution: (line / space)	0.400 mm / 0.400 mm
Screen Time:	> 10 hours
Tack Time:	> 72 hours

CLEANING

This is a no-clean solder paste and does not require cleaning after reflow however because of the relatively high reflow temperature of 260 °C some charring of the flux can occur and cleaning may be carried out if required.

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*None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.

CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapours emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

DISCLAIMER: The product information and recommendations contained herein are based on data obtained by tests we believe to be accurate, but the accuracy and completeness thereof is not guaranteed. No warranty is expressed or implied regarding the accuracy of these data, the results obtained from the use hereof, or that any such use will not infringe any patent. ElectroScience assumes no liability for any injury, loss, or damage, direct or consequential, arising out of its use by others. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular use, before using it. User assumes all risk and liability whatsoever in connection with his intended use. ElectroScience's only obligation shall be to replace such quantity of the product proved defective.
