



ESL EUROPE

SOLDER PASTES &
THICK-FILM MATERIALS

8 COMMERCIAL ROAD
READING, BERKSHIRE, RG2 0QZ, UK

T: +44 (0) 118 918 2400
F: +44 (0) 118 986 7331

www.solderpaste.co.uk

NO CLEAN SOLDER PASTE **NC-3701-G Series**

ESL NC-3701-G Series are RMA solder pastes with an SIR value $> 10^{14}\Omega$. This is the **highest SIR available**. These pastes can be screened and reflowed according to ESL's standard solder paste processing procedures. Reflowing results in shiny, bright solder pads with a small amount of a hard, clear, benign residue that requires no removal. The rheology is suitable for fine pitch applications. The screened pastes exhibit excellent tack properties and good slump characteristics. Before use, gentle stirring is recommended for 15 seconds.

Available in Standard, Medium Viscosity (MV) and High Viscosity (HV) variants.

PASTE DATA

Solder Alloy: (Meets QQ-S-571 -E Specifications) 62% Sn / 36% Pb / 2% Ag

Particle Size: -325 / +500 mesh

Viscosity: (TF Spindle, 5 rpm, 25.5°C \pm 0.5 °C) **Standard:** 650 \pm 50 Pa.s
MV: 750 \pm 50 Pa.s
HV: 950 \pm 50 Pa.s

Solids: 90 \pm 0.5 %

Reflow Temperature: Standard reflow profiles used for RMA pastes are appropriate. Designed to be reflowed in air. However it may also be reflowed in N₂.

Flux: Rosin Mildly Activated

Flux Removal: Not required. Note: If cleaning is desired, residue can be removed using standard flux solvent or saponifier cleaning methods.

Thinner: ESL 401

Packaging: 500 to 1000 grams in jars and 1 kg cartridges

ESL Europe NC-3701-G Series 0509-C

ESL Worldwide

ESL ElectroScience (USA) • 416 East Church Road • King of Prussia • PA 19406-2625 • U.S.A • Tel: +1 610-272-8000 • Fax: +1 610-272-6759 • Sales@ElectroScience.com

ESL Nippon • Sukegawa Bldg. 6th floor, 3-4 Yanagibashi 1-chome, Taito-ku, Tokyo 111, Japan • Tel: +81-3-3864-8521 • Fax: +81-3-3864-9270 • Sales@ESL-Nippon.co.jp

ESL China • Room #2712, Far East International Plaza, No.317 Xianxia Road, Changning District, Shanghai, China 200051 • Tel: +86-21-6237-0336 • Fax: +86-21-6237-0338 • ESLChina@eslshanghai.net

ESL Taiwan • 14F, No. 168, Tun Hwa N. Road, Sungsan District, Taipei, Taiwan • Tel: +886-975-553-612 • dshih@esl-taipei.com

ESL in Korea • AMT, #109-405, 85(4/2), Bakdal 2-Dong, Manan-Ku, Anyang-Si, KyunggiDo, South Korea • Tel: +82-31-466-0651 • Fax: +82-31-466-0658 • yumikim@esl-amt.co.kr

See Caution and Disclaimer on next page.

TECHNICAL SPECIFICATIONS

Water Extraction Conductivity Test: (Per QQ-S-571 -E) > 100,000 Ω / cm

Halide Test: (Per QQ-S-571 -E) Passes

Surface Insulation Resistance:

(MIL-F-14256, IPC Test Boards 168 hours, 85 °C / 85 % R.H.) > 10¹⁴ Ω (cleaned and uncleaned)

Screen Time: > 10 hours

Tack Time: ~ 70 hours

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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.
