



ESL EUROPE

SOLDER PASTES &
THICK-FILM MATERIALS

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SYRINGABLE NO CLEAN SOLDER PASTE

NC-3701-GE 350

GE Flux Has Been Independently Tested To Meet The Bellcore Specification

NC-3701-GE 350 is a no-clean RMA solder paste. This is suitable for syringe-dispense and can be reflowed according to ESL's standard solder paste processing procedures. Reflowing results in shiny solder joints with a small amount of a hard, clear, benign residue that requires no removal. The rheology is suitable for fine pitch applications. The dispensed paste exhibits excellent tack properties and anti-slump characteristics.

PASTE DATA

Solder Alloy:

(Meets QQ-S-571-E specifications)

62%Sn / 36%Pb / 2%Ag

Particle Size:

-325 / +500 mesh

Rheology:

Syringe-dispensable paste

Viscosity:

(TF spindle, 5 rpm, 25.5 ± 0.5 °C)

350 ± 25 Pa.s

Solids:

89 ± 1.0 %

Shelf Life:

(3 - 20°C, may be refrigerated)

6 months

Flux:

Rosin mildly activated

TECHNICAL DATA

Test	Specification	Result
Silver Chromate Paper Test:	Bellcore TR-NWT-000078	No colour change
(Test For Halides)	IPC-TM-650	
Copper Mirror Test:	Bellcore TR-NVVT-000078	Type L IPC-TM-650
	(no breakthrough)	
Surface Insulation Resistance:	TR-NWT-000078	1.39 x 10 ¹² (after 96 hrs) 35°C/85% R.H

Visual examination - no evidence of Blue-Green corrosion and dendritic growth was observed on patterns

Electro-migration:	Bellcore TR-NWT-000078	85°C/85% R.H 2.10 x 10 ¹⁰ (after 500 hrs)
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Visual examination - no evidence of electro-migration on test samples

ESL Europe NC-3701-GE 350 0507-C

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See Caution and Disclaimer on next page.

TYPICAL PROPERTIES

Tack Time:	> 30 hours
Packaging:	25 - 100 g syringes

PROCESSING:

Dispenser Needle Diameter:	0.33 mm
Reflow Temperature:	Standard reflow profiles used for RMA pastes are appropriate. This paste is designed to be reflowed in air, but it may also be reflowed in N ₂ .
Flux Removal:	Not required. Note: If cleaning is desired; residue can be removed using standard flux solvent or saponifier cleaning methods.
Thinner:	ESL 401

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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.
