

Technical datasheet

KEKO silver internal paste – Agl-1

KEKO Agl-1 paste is a silver co-firable paste specially design for use with KEKO LTCC SK-47 tape suited for internal signal lines, ground planes and capacitor electrodes. It offers several benefits such as low cost highly conductive metalization, high circuit density and cofireable porocess.

Typical processing procedure for KEKO Agl-1 paste

For detail information about use of the KEKO Agl-1 paste on KEKO SK-47 LTCC tape please see the LTCC PROCESSING INSTRUCTIONS for KEKO SK-47 LTCC Tape.

Design

For detailed recommendations about the design of printed patterns please contact KEKO Equipment stuff and see the LTCC PROCESSING INSTRUCTIONS for KEKO SK-47 LTCC Tape.

Screen printing

The paste should be thoroughly mixed before use. Mix the paste slowly and gently by hand with a dust free spatula (plastic or stainless steel) for 1 minute for best results. Avoid air entrapment.

Printing should be performed in a clean and well-ventilated area. For the best results, the use of the KEKO Equipment screen printing machines from series P and stencils provided by KEKO are recommended. Optimum printing characteristics are generally achieved at a room temperature of 20-25 °C.

Printed patterns are usually printed on KEKO SK-47 LTCC tape using screen printing technique and 325 mesh metal stencils.

Thinning

The paste composition is adjusted for optimal performance, therefor thinning of the paste is not recommended. Improper thinning may

affect printing characteristics. Solvent evaporation during normal use of the paste may be replenish but care should be taken to not over-thin.

Drying

It is recommended to dry sheets in KEKO dryer series SD. Any other conventional drying ovens at a maximum temperature of 70 °C for 10 to 20 minutes may be used. Do not over-dry.

Lamination and Firing

The details about lamination and firing are described in LTCC PROCESSING INSTRUCTIONS for KEKO SK-47 LTCC Tape.

Storage and Shelf Life

Store the pastes in tight sealed containers at room temperature in dry place. Avoid direct sunlight or other source of heat radiation. The shelf life of unopened package is 6 months.

Settling of solids may occur, therefore the paste should be thoroughly mixed prior to use.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

Storage

Store the pastes in closed containers in a room temperature and dry place. Avoid direct sunlight or other source of heat radiation. The shelf life of unopened package is 6 months.

Typical properties of KEKO Agl-1 paste

Viscosity @ 25°C Brookfiled HBDV-II, SC4-14 spindle,1 rpm)	100-200 Pa·s
Clean-Up Solvent	Isopropanol
Thinner	KEKO Thinner 07
Solid content	84 %
Dried line resolution (line/space) μm	100/100
Fired Resistivity (mΩ/sq ²)	<3

This data represents typical properties measured by on our own test specimens and it is not intended to be used as specification limits.