



GE Alcohol Soluble Polyurethane Lamination Ink

【Product description】

GE Series is an alcohol based polyurethane lamination ink. It is an eco-friendly ink used for PET, NY, OPP and PVDC thin film. It is suitable for low solvent residue limit food packaging, PVDC film package.

【Components】

- ❖ Resin: Alcohol soluble polyurethane
- ❖ Solvent: Ethyl acetate/ Anhydrous ethanol
- ❖ Additive: Dispersant/ Anti-blocking agent
- ❖ Pigment: Organic/ Inorganic Pigment

【Application】

- ❖ Printing substrate: PET, NY, OPP and PVDC films
- ❖ Lamination substrate: PE, CPP, vacuum metalised Al film, aluminum film etc.
- ❖ Lamination method: Dry lamination, extrusion lamination (PE) (Need addition of additive)
- ❖ Printing speed: 80-250m/min, recommend printing viscosity 15-18 seconds Zahn 2 cup.

【Product feature】

- ❖ No addition of benzene and ketone during production, good compatibility with ethanol
- ❖ Low solvent residue, suitable for food packaging; especially suitable for high solvent residue requirement product like PVDC film food packaging
- ❖ Excellent ink transfer and printing performance, suitable for normal and high speed printing.



【Standard colour】

GE5134R Black	GE5632R Green
GE5210R White	GE5724 Orange
GE5321R Original Yellow	GE5842 Permeable Purple
GE5438RC Original Red	GE5843R Non Permeable Purple
GE5531R Original Blue	GE5999R Varnish

【Diluent Ratio】

Solvent \ Drying Speed	fast	medium	slow
	Anhydrous ethanol	--	50
Ethyl acetate	100	50	30

When printing on PVDC, you could increase proportion of anhydrous ethanol to decrease ester residual solvent.

【Storage & Safety】

- ❖ Flammable, volatile, sealed, store in a cool ventilated place, avoid direct sunlight.
- ❖ Best printing temp. at 15-30°C, please shake well before use
- ❖ Avoid contact with skin and eyes during operation, for more details please refer to “Ink health and safety instructions”

【Notices】

- ❖ Since alcohol based solvent is used in GE ink formulation, ink will absorb moisture during rainy days and humid weather, please be aware. When using anhydrous ethanol please ensure water content meets standard
- ❖ Printing film surface process: OPP > 38dynes, PET > 50dynes, NY > 52dynes
- ❖ For boiling, retort application and printing on NY, 3~5% hardener should be added. Product code with R at the end is suitable for retort application, ending with E is used for light packaging application



- ❖ If retort performance of different pigments is required, please contact us
- ❖ Lamination and heat sealing performance must be tested when using different adhesive
- ❖ For boiling application please check compatibility of the adhesive

【Disclaimer】

This specification is in accordance with the actual production and test results, whether the product could meet your process requirements depends on application conditions and printed material. We recommend the users to assess if the product can meet all their requirements before production. Since we cannot predict or control your printing condition, the product performance cannot be guaranteed all sales are subjected to the standard terms and conditions of the sales control division.