

English Version (Japanese Translation)	Post-Order Production	screen ink
		Functional Ink "JELCON"
		Conductive ink

Functionality conductivity | One-liquid thermosetting type

JELCON RK Series

WFY #317B Silver Paste

This is a highly flexible, highly elastic, and flexible conductive ink.
We recommend printing on urethane sheets, textiles, and similar materials.

Product Features

- It is highly stretchable and flexible, suitable for applications requiring bending and other applications.
- With a single-liquid thermosetting type, it offers excellent handling and makes circuit formation easy.

Features

flexibility	Handling performance
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Recommended Printed Materials

Material

soft material	Polyurethane [PU]	urethane sheet	cloth	cotton cloth	Fiber
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Function-specific data

volumetric resistivity

1~3×10⁻⁴Ω·cm (Dried at 120° C for 30 minutes, Film thickness 11 μm, 4-probe method)

Specifications

Ink viscosity	Characteristics
12,500±2,500 mPa·s (E-type viscometer)	paste

How to use

- The target base material is urethane sheet and fibers (polyester or other materials with an undercoat required).

diluent

- #4リターダー

print edition

Types of Editions	mesh	Cleaning
photographic plate	250~350 (stainless steel version recommended)	Vinyl cleaning solvent

Curing Method & Conditions

Evaporative Drying Conditions

Standard drying

120° C for 30 minutes (minimum condition)

Test data (environment, physical properties, weather resistance, performance, etc.)

Conditions

base material	0.3mm thick urethane elastomer sheet
Conductive ink	Inks used: WFY #317B Silver Paste Printing plate: 325 mesh (SUS version) Dry film thickness: 11~12 μ m Drying conditions: 120° C for 30 minutes
insulating ink	Inks used: WFY PTY #110コート Printing plate: 100 mesh × 2 layers Drying conditions: 120° C for 30 minutes

Results

Test Items	Test Method	Results
heat resistance Resistance change rate	80°C	500hr : $\leq 20\%$ 1000hr : $\leq 25\%$
moisture resistance Resistance change rate	65°C × 95%RH	500hr : $\leq 5\%$ 1000hr : $\leq 25\%$
	85°C × 85%RH	500hr : $\leq -10\%$ 1000hr : $\leq 20\%$

Notes

- Please note that adhesion and resistance values may vary depending on drying conditions.
- For squeegee, we recommend a hardness of 80~85° and a thickness of 9mm.
- The shelf life is one year after manufacture in a cool, dark place (5~25° C).
- For safety precautions when using the product, please refer to the product's Safety Data Sheet (SDS).
- The contents provided in this information may be changed or revised without prior notice.
- This characteristic data is based on the evaluation results conducted by our company and does not guarantee the product's characteristics during customer use.
- When using the device, please thoroughly consider the conditions based on the evaluation results of the equipment and substrate actually being used.