

# Cleaning agents of the series R 5800

The cleaning agents of the series **R 5800** are used in the processing of circuit printing inks, conformal coatings, thick film coatings and many other inks, for the purpose of cleaning tools, print screens and ink processing equipment.

- fast and thorough cleaning
- removal of non-dried ink in case of misprints or miscoatings
- no dissolving of screen stencils and base material

## Characteristics

	<b>R 5814</b>	<b>R 5817</b>	<b>R 5821</b>
Colour/appearance	colourless, clear	colourless, clear	colourless, clear
Density at 20 °C [68 °F], DIN 51757	0.86 ± 0.02 g/cm <sup>3</sup>	0.82 ± 0.02 g/cm <sup>3</sup>	0.91 ± 0.02 g/cm <sup>3</sup>
Flash point	-4 °C [24.8 °F]	-6 °C [21.2 °F]	+32 °C [89.6 °F]
Evaporation index (Ether = 1)	≤ 25	≤ 25	≤ 50

Index R = cleaning agent

## Processing



Please read this technical report and the publications listed below carefully before using the product. These sheets are enclosed with the first shipment of product or sample.

### MSDS

The corresponding material safety data sheet contains detailed information and characteristics on safety precautions, environmental protection, transport, storage, handling and waste disposal.

### TI

Technical information TI 15/3 "Protective measures when using chemicals including lacquers, casting compounds, thinners, cleaning agents"

- Test the resistance of all materials that will be in contact with **R 5899**, such as gaskets.
- Do not use cleaning agent to clean hands.
- Wear skin protective gloves and use hand cream as all solvents extract grease from the human skin.

On account of the variety of individual properties and chemical compositions the cleaning agent of the series **R 5800** should be chosen to best suit the specific needs.

- Follow the instructions and recommendations given in the Technical Report of the product to be processed.

Since the many different permutations make it impossible to evaluate the whole spectrum (parameters, reactions with materials used, chemical processes and machines) of processes and subsequent processes in all their variations, the parameters we recommend are to be viewed as guidelines only that were determined in laboratory conditions. We advise you to determine the exact process limitations within your production environment, in particular as regards compatibility with your specific follow-up processes, in order to ensure a stable fabrication process and products of the highest possible quality.

The specified product data is based upon standard processing conditions/test conditions of the mentioned norms and must be verified observing suitable test conditions on processed printed circuit boards.

Feel free to contact our application technology department (ATD) if you have any questions or for a consultation.

### Safety recommendations

- When using chemicals, the common precautions should be carefully noted.
- Ensure that extractor units of workplace ventilation arrangements are positioned at solvent source level.
- Please also pay attention to national guidelines or directives concerning operating safety such as the German TRBS (technical rules for operating safety) and those concerning the handling of flammable liquids as for example the German TRbF (technical rules for flammable liquids) or European directives.

### Manual screen cleaning

For this purpose we recommend cleaning agent **R 5814** or **R 5817**, with **R 5814** standing out for low odour and **R 5817** for a faster and more intense cleaning power.

- In order to avoid contamination or damage of screens and stencils we recommend to use soft, non-fuzzing cloth or soft brushes.
- Prior to cleaning spray screen opener **HP 5200** onto the screen, in order to dissolve the dry ink and facilitate screen cleaning.

### Use in screen-washing units

Owing to the high flash point the cleaning agent **R 5821** is particularly suitable for screen-washing units.

### Cleaning of ink processing equipment

Here we recommend our cleaning agents **R 5817** and **R 5821**.

- Rinse equipment thoroughly with the thinner that corresponds to the old coating; discharge thinner.
- Rinse equipment thoroughly with cleaning agent; discharge cleaning agent.
- Rinse equipment thoroughly with the thinner that corresponds to the new coating; discharge thinner.

### Coating removal from tools and PCB misprints

Ink residues on tools or non-dried ink on PCB misprints or miscoatings can be easily removed by using a cleaning agent of the series **R 5800**.

- Dip/flood the tools or defective PCBs in a cleaning agent of the series **R 5800** and/or clean them by means of a brush.

## Recycling of used cleaning agents

Any cleaning agent contaminated with coating can be distilled and used again.

- Always add a certain quantity of fresh cleaning agent (min. 30%) to the distillate.
- Perform pre-trials to ensure a good cleaning effect.

## Standard packaging

	Packaging	Packing unit
R 5814 R 5817 R 5821	can of 15 kg	15 kg
R 5817	barrel of 160 kg	160 kg
R 5814 R 5821	barrel of 170 kg	170 kg

Smaller quantities available against surcharge.

## Shelf-life and storage conditions



Shelf life: In sealed original containers at least 24 months



Storage conditions: +5 °C to +25 °C [+41 °F to +77 °F]

### Keep away from sources of ignition.

For warehousing reasons, isolated cases may occur where the shelf life upon shipment is less than the shelf life indicated in this technical report. However, it is ensured that our products have **at least** two-thirds of their shelf life remaining when they leave our company. Labels on containers show shelf life and storage conditions.

## Disclaimer

All descriptions and images of our goods and products contained in our technical literature, catalogues, flyers, circular letters, advertisements, price lists, websites, data sheets and brochures, and in particular the information given in this literature are non-binding unless expressly stated otherwise in the Agreement. This shall also include the property rights of third parties if applicable.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets. The advisory service does not exempt you from performing your own assessments, in particular as regards their suitability for the applications intended. The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery.

Any questions?

We would be pleased to offer you advice and assistance in solving your problems. Samples and technical literature are available upon request.

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