

PRODUCT DATA SHEET

5RMA-RC and 5RA-RC

REACH Compliant Liquid Fluxes



Introduction

5RMA-RC and **5RA-RC** are heat-stabilized rosin fluxes designed for soldering with preforms or wire. They are formulated for use with a wide range of temperatures and metallizations. Both fluxes are free of materials listed in the REACH SVHC list (Q2, 2015).

5RMA-RC is a no-clean, mildly activated flux. **5RA-RC** is compatible with Pb-free alloys, as well as with high-Pb and SnPb alloys.

Storage and Handling

The shelf life of **5RMA-RC** and **5RA-RC** is 1 year when stored at 0° to 30° C.

Flux should be allowed to reach ambient temperature prior to use. Containers should be labeled with date and time of opening.

Safety Data Sheets

The SDS for these products can be found online at <http://www.indium.com/sds>

Other Recommended Products

- Solder preforms
- Solder wire
- Solder research kits

Recommended Application Notes

- Flux and Solder Compatibility (#97751)
- Common Elements (#98557)
- Pb-Free Solder FAQs (#97758)
- Practical Suggestions for Preform Design (#97763)

Cleaning

5RMA-RC is a no-clean flux. Removal of post reflow flux residue is usually not necessary. If cleaning is desired, commercially available flux residue removers can be used.

Because **5RA-RC** is a fully-activated flux, the post reflow residue must be removed. Solvent-based or semi-aqueous cleaners should be used to remove any flux residues.

Packaging

Standard packaging for **5RMA-RC** and **5RA-RC** are 1 U.S. pint (0.473 liter) and 1 U.S. gallon (3.785 liters).

	5RMA-RC Flux	5RA-RC Flux
Common surface metallizations	Clean copper, gold, palladium, platinum, silver, solder-plate, tin	Beryllium-copper, brass, bronze, cadmium, lead, nickel, oxidized copper, rhodium
Common alloys to solder	AuSn, indium alloys, SnAg, Sn63, SAC, and other Pb-free alloys	AuSn, high-lead, indium alloys, SAC and other Pb-free alloys, Sn63
Application	Dipping, spray fluxing, spin-coating	Spray fluxing, spin-coating, dipping
Activation	Mildly activated	Fully activated
Flash point	12°C	12°C
Flux type classification	ROL1	ROH1
Solid content	26.72%	20.67%
Typical specific gravity	0.865	0.857
Visual appearance	Amber liquid	Amber liquid
Water resistivity (Ω-cm)	>100,000	<50,000
Cleaning	Not needed	Clean for high reliability

All information is for reference only. Not to be used as incoming product specifications.

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