

ALPHA[®] 100-40

Non-Activated Rosin Flux (Type R)

DESCRIPTION

ALPHA 100-40 Flux is a solution of pure water-white rosin in alcohol, meeting the requirements of Type R of MIL-F-14256D, designated as “Flux, Soldering, Liquid (Rosin Base).” This flux contains no activator additives, making this rosin flux the least corrosive type available.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

ALPHA 100-40 Rosin Flux contains P.C. Rosin – a quality grade of water-white rosin that meets the requirements of Class A of Type 1, Grade WW of Federal Specification LLL-R-626. Use of P.C. Rosin insures a flux of maximum clarity, light color, and consistent performance.

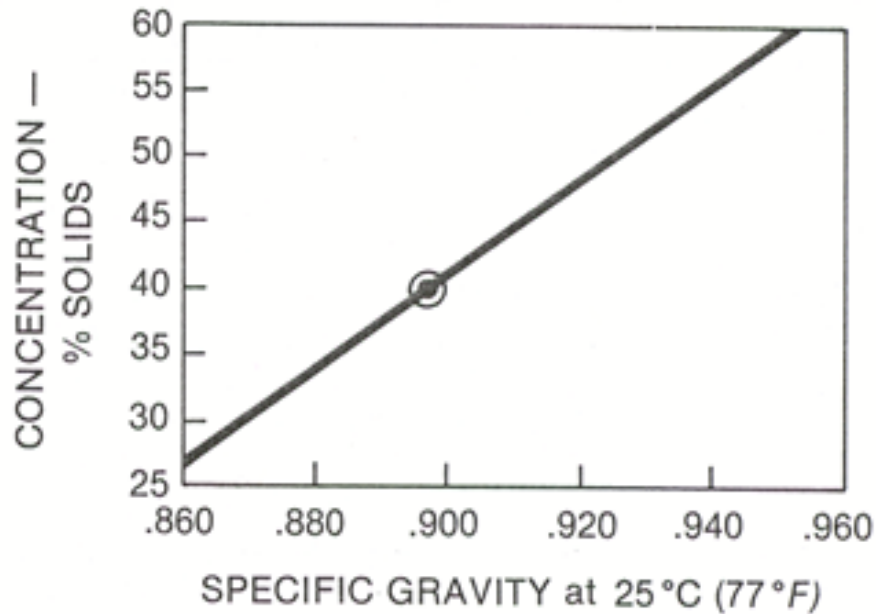
APPLICATION GUIDELINES

ALPHA 100-40 can be used on critical electronic assemblies where current leakage is extremely sensitive and where flux residue removal is not feasible. This flux is often used to test the solderability of bare boards and component leads, as an incoming QC tool. ALPHA 100-40 is suitable for use on the following metals, provided the surfaces are not heavily tarnished:

Cadium (Plate)	Copper	Gold	Silver
Solder (Plate)	Tin (Hot Dipped)	Tin Plate (Electrolytic)	Tin / Zinc (Plate)
Teme (Plate)	Tin (Hot Dipped)	Tin Plate (Electrolytic)	Silver Tin / Zinc (Plate)

Flux Application: ALPHA 100-40 may be applied by brushing, dipping, spraying or any conventional method.

Control: During use, most fluxes tend to thicken and become viscous because of solvent evaporation. For consistent results, it is recommended that evaporation losses be replenished by the addition of ALPHA 411 Thinner until the proper specific gravity is obtained. The specific gravity can be determined by using a hydrometer (taking into consideration the flux temperature). The graph below shows the concentration/specific gravity relationship for ALPHA 100-40 Flux.



Residue Removal: Flux residues are non-conductive and non-hygroscopic and are, therefore, considered to be non-corrosive. While it is recommended that flux residues be removed after soldering for critical assemblies, no corrosion or current leakage will occur if some residues remain.

For effective removal of flux residues use solvent cleaners or ALPHA 2100 when using aqueous cleaning systems.

TECHNICAL DATA

Item	Typical Values	Item	Typical Values
Appearance	Amber Liquid	Flash Point (T.C.C.)	20 °C (68 °F)
Solids Content, %wt/wt	40	Recommended Thinner	ALPHA 411
Specific Gravity @ 25 °C (77 °F)	0.898 ± 0.005	Shelf Life (from Date of Mfg.)	1080 Days
Water Extract Resistivity	300,000 ohm-cm	IPC J-STD-004(B) Designation	ROLO
Resistance	Per MIL-E-5272	Packaging Size	1, 5 & 55 gallons

RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area or [link here](#).



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact
Assembly@MacDermidAlpha.com
www.macdermidalpha.com

<p>North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460</p>	<p>Europe Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400</p>	<p>Asia 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100</p>
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. **READ IT THOROUGHLY PRIOR TO PRODUCT USE.** Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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