

ALPHA[®] 711 & 711-35 FLUXES

Liquid Activated Rosin

DESCRIPTION

The **ALPHA 711 Fluxes** are homogeneous solutions of water-white rosin in a blend of organic solvents to which has been added a small amount of an extremely effective activating agent. These fluxes are formulated along the lines of activated cored solders as specified in QQ-S-571 and are available in two rosin concentrations: **ALPHA 711** contains 57% rosin while **ALPHA 711-35** contains 35% rosin.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

Rosin Type: ALPHA 711 and 711-35 fluxes contain PC Rosin – the finest grade of water – white rosin which has been specially processed by Alpha to remove undesirable materials without altering the chemical composition of the rosin. In addition to producing a purer rosin which provides increased flux clarity, lighter flux color and greater performance consistency, the use of PC Rosin in the manufacture of this flux eliminates the problem of crystallization and simplifies total flux residue removal operations.

APPLICATION GUIDELINES

The heavy concentration of rosin in ALPHA 711 insures adequate flux coverage and protection of boards during soldering, even at high temperatures and extended soldering times. In spite of its high solids content, the flux flows and wets surfaces extremely well. ALPHA 711-35 is used in those instances where a lesser amount of rosin residue is desired on the soldered assembly. The ALPHA 711 fluxes were developed for use in printed circuit soldering. Both fluxes are also used for solder coating or tinning bare leads of solderable metals, and other applications where activated liquid rosins are normally used. These fluxes have proven to be highly effective on the following surfaces:

Brass	Lead	Solder (Hot Dip)
Bronze	Nickel (Plate)	Terne (Plate)
Cadmium (Plate)	Silver	Tin (Hot Dip)
Copper	Solder (Plate)	Tin (Plate)

Either flux may be applied to parts to be soldered by immersion, brush, spray or wave application. The parts may be fluxed immediately prior to soldering or several hours apart.

Residue Removal: For critical electronic equipment, it is recommended that the residues be removed. This may be accomplished with either ALPHA 564 or Alpha 1003 Cleaning Solvents.

Thinning: The flux may become thick through loss of solvent by evaporation. It should be restored to its original composition by the addition of ALPHA 412 Thinner until the proper specific gravity is achieved.

TECHNICAL DATA

Physical Properties	Typical Values	
	711	711-35
Physical State	Liquid	Liquid
Specific Gravity @ 25 °C (77 °F)	0.933 ± 0.005	0.875 ± 0.005
Flash Point (TCC)	62 °F (15.7 °C)	61 °F (16.1 °C)
Color	Clear Amber	Clear Amber
Percent Solids	57%	35%
Typical Water Extract Resistivity	34,000 ohm/cm	52,000 ohm/cm
Fungus Resistance	Meets MIL-E-5272	Meets MIL-E-5272

AVAILABILITY

ALPHA 711 and 711-35 fluxes are available in 1, 5 and 55 gallon containers.

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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