BOW ELECTRONIC SOLDERS

TECHNICAL DATA SHEET

BOW 802, 802P NO CLEAN ORGANIC FLUX

DESCRIPTION

BOW 802 and BOW 802P are halide free, organic based fluxes with very low non-evaporating content. They are designed for wave soldering of conventional and SMT boards. They do not contain rosin or resin. This is often an advantage in electrical PIN testing or in the soldering of certain types of switches with exposed contacts. The extremely small amount of residue is non-corrosive, virtually non-ionic and may be left on the boards after soldering. Operating costs can thus be reduced greatly. In general, there will appear to be no residue left on the boards.

If boards contain bare copper surfaces, it is advisable that they be free of oxides or other contamination for optimum soldering. Under suitable conditions, BOW 802 and BOW 802P may be used for tinning, reflow soldering or touch-up. BOW 802P is used when a higher thermal stability is required of the flux (i.e. using higher temperature solder like Sn96Ag4).

APPLICATION

BOW 802 and BOW 802P may be used in both foam and wave fluxing equipment. They may also be applied by brushing, dipping, or spraying.

RESIDUE PROPERTIES

When the residue of BOW 802 was tested under the conditions of IPC-SF-818, Class 3*, the surface insulation resistance was greater than 1010 OHMS.

*IPC Comb Pattern B, 85°C, 85% RH, 168 Hours, 45 V DC Bias during exposure, 100 v DC for SIR Readings while test boards were inside the chamber. SIR requirement: 10 OHMS.

In addition, the flux and flux residue pass the corrosion tests of IPC-SF-818, which classify it as L3N. (Low or no flux/flux residue activity; Class 3 SIR; not cleaned.)

PHYSICAL PROPERTIES

	BOW #802	BOW #802P
Flash Point	62°F TCC	75°C TCC
Specific Gravity	0.830 @ 77°F	0.835@ 77°F
Color	Clear	Clear
Solids Content	Approx. 2.5	Approx. 2.5
Activator Type	Organic Acid	Organic Acid
Acid Number	18.0+/-2.0	18.0+/-2.0

MAINTENANCE

BOW 802 may be maintained by controlling the specific gravity with BOW 1200 Thinner. BOW 802P may be maintained by controlling the specific gravity with BOW 1000 Thinner.

PACKAGING AND STORAGE INFORMATION

BOW 802 and BOW 802P fluxes are packaged in one-gallon plastic jugs, five-gallon plastic pails and 55-gallon plastic drums. They should be stored in a cool dry place. Since this flux is flammable, keep away from open flames and spark sources. Please consult Safety Data Sheets prior to use.

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