Technical Datasheet

BECE HAL-BIC-FLUX 7059

HAL-FLUX for Pb-free and tin/lead solders

1. Description:

HAL-BIC-FLUX 7059 is specially designed for the soldering of printed circuit boards in vertical Hot-Air-Levelling machines.

HAL-BIC-FLUX 7059 reduces surface tension and removes oxide residues from copper surface.

HAL-BIC-FLUX 7059 prevents solder balls from sticking to the board or the solder mask surface during the hot-air-levelling process. This is especially an advantage for single side boards with CEM1 base material.

After the soldering process **HAL-BIC-FLUX 7059** can easily be removed with water.

HAL-BIC-FLUX 7059 provides a glossy and uniform solder surface.

Due to the excellent activating feature **HAL-BIC-FLUX 7059** provides impressive soldering results.

HAL-BIC-FLUX 7059 is resistant against high temperature and can be used in lead-free solder processes.

HAL-BIC-FLUX 7059 prevents solder from splashing and therefore keeps the equipment clean. It is carrier system allows “wet-in-wet” processing.

HAL-BIC-FLUX 7059 is soluble in cold water without gelatinizing.

HAL-BIC-FLUX 7059 does not show any interaction with solder masks of leading producers (i.e. discoloration or bleeding) and enables best insulation resistance.

HAL-BIC-FLUX 7059 is biodegradable.

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2. Advantages:

- Fast reduction of surface tension.
- **HAL-BIC-FLUX 7059** is free of hydrochloride acid (HCl) and no corrosion takes place in the equipment.
- Uniform solder layers.
- Efficient elimination of copper oxide residues.
- Excellent for the SMD-technology.

- Less maintenance.
- No drying up.
- Compatible with all established solder masks.
- 100% water-soluble.
- Flashpoint above 290 °C.

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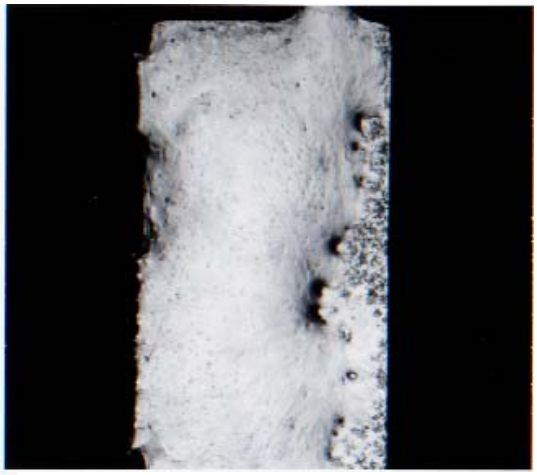
- No foam formation during rinsing.
- Designed and suitable for all vertical hot-air-soldering-levelling equipment.

finished surface after soldering with HAL-BIC-FLUX 7059



finished surface after soldering with product from the competition

3. Directions:

- **HAL-BIC-FLUX 7059** is ready to use.
- **HAL-BIC-FLUX 7059** is coated advantageous in a roller process.

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4. Bath control:

- To keep the viscosity stable **HAL-BIC-FLUX 7059** shall be constantly adjusted by refilling.

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5. Physical Characteristics:

Shape:	slightly viscous fluid
Colour:	colourless to slightly red
Odour:	mild
PH-value:	< 3
Density 20°C:	1,10 +/- 0,006 g/cm^3
Dissolubility in Water:	100%
Flashpoint:	> 288°C (COC-Method)
Ignition temperature:	> 400°C

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6. Storage:

- To be stored only in original containers between 10 and 32 °C.
- No insolation.
- Keep containers always closed.

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7. Packaging:

Available in:
- 200 kg drums
- 1000 kg IBC

Remarks:
The above information is true and accurate to the best of our knowledge. We suggest any recommendation should be taken only as a guide for best utilizations of our products, without any warranty from us.
However, we guarantee the quality of our products to be in good order and condition at the time of delivery according to the product specification given.
For further information or advice please contact our technical customer service.

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