

**FL2020M**
*No Clean Liquid Flux*

**Product Description**

Hasaconi FL2020M is a RMA liquid flux that has excellent oxide removal capabilities and is able to reduce the surface tension of lead free solder to minimise solder shorts during the assembly process. Although FL2020M has high solid content, it has been formulated for use in both foaming and spraying applications as it is able to form uniform bubble size in the foaming process and does not clog the spray nozzle after prolonged usage.

**Application**

FL2020M is specially formulated for both foaming and spraying process. On board pre-heat temperature is recommended to be 80 – 100 °C. It can also be used in the dipping applications.

**Residue Removal**

Since the residues are minimal and non-corrosive, removal is usually not required. If cleaning is required, the flux residue could be removed by any solvent or aqueous flux cleaner available in the market.

**Recommended Solvent**

Asahi's complementary Solvent S2012M. Solvent can be stored for about 2 years under normal storage conditions of 25°C.

**Health and Safety**

Observe standard precautions for handling and use, such as well-ventilated areas and avoidance of prolonged or repeated contact with the skin. For more information, please refer to the Material Safety Data Sheet.

**Storage**

Under proper storage condition, FL2020M can be stored for up to 6 months. FL2020M is flammable. Keep away from all sources of heat, sparks, flame and sunlight.

**Packaging**

Available in 18kg/carboy.

**Specification**

Item	Result
State	Liquid
Colour	Light brown
Specific Gravity @ 25°C	0.826 +/- 0.005
JIS Z 3197 8.2.2	
Non-volatile Solid Content (110°C, 1hr)	18.0 +/- 1.0 wt%
IPC-TM-650 2.3.34	
JIS Z 3197 8.1.3	
Halide Content	0.08 +/- 0.01 wt%
JIS Z 3197 8.1.4.2.1	
Acid Value Test	41.0 +/- 2.0 mg KOH/g flux
IPC-TM-650 2.3.13	
JIS Z 3197 8.1.4.1	
Water Extract Resistivity	> 1 x 10 <sup>4</sup> Ω-cm
JIS Z 3197 8.1.1	
Surface Insulation Resistance (85°C, 85%RH, 168hrs)	> 1 x 10 <sup>8</sup> Ω, Pass
IPC-TM-650 2.6.3.3	
JIS Z 3197 8.5.3	> 1 x 10 <sup>11</sup> Ω, Pass
Electromigration (85°C, 88.5%RH, 596hrs)	Pass
IPC-TM-650 2.6.14.1	
Copper Corrosion Test	Pass
IPC-TM-650 2.6.15	
JIS Z 3197 8.4.1	
Copper Mirror Test	Classified as "M", Pass
IPC-TM-650 2.3.32	
JIS Z 3197 8.4.2	
Flux Activity Classification	ROM1
IPC J-STD-004	
Spread Factor	> 75% (SnCu) > 90% (SnPb)
JIS Z 3197 8.3.1.1	
Residue Dryness Test	Dry
IPC-TM-650 2.4.47	
JIS Z 3197 8.5.1	
Surface Finish	Matte

**DISCLAIMER OF LIABILITY**

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