



Soldering flux IF 8001

INTERFLUX®
ELECTRONICS N.V.



Technical data IF 8001

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No-clean soldering flux for selective fluxing applications

Description:

IF 8001 is a no-clean soldering flux developed for selective fluxing applications

The flux is suitable for SnPb and lead-free alloys.

Typical processes where **IF 8001** can be used are hand soldering, touch up, automated soldering, and stamp soldering. **IF 8001** can also be used for SnPb BGA rework.

The flux has not been developed for selective wave applications.

IF 8001 is absolutely halogen free, guaranteeing a high reliability after soldering.

The flux contains a light synthetic resin, resulting in very clean solder joints, if the flux is selectively applied on the solder joint in the right quantity.

Applying the flux

Due to its wide range of use, there are many possible ways of applying the flux.

The flux can be applied by brush, by spraying or dipping.

The flux should be applied on the surfaces that need to be soldered. In general, it should be the goal to apply just enough flux in order to minimize residue formation after the



Physical and chemical properties:

Density at 20°C	: 0,850 g/ml ± 0.01
Colour	: Light yellow
Odour	: Aliphatic Alcohol
Solid content	: 8,55%
Halide content	: 0,00%
Flash point (T.O.C)	: 13°C (55°F)
Total Acid Number	: 67,5 mg KOH/g
IPC/ EN	: RE L0

soldering process. This is being done by trial and error because each process has different parameters, determining the required minimum flux amount. Minimize the flux amount gradually until soldering defects like non wetting, orange skin, etc... appear. Raise the flux amount till the problems disappear.



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Key advantages:

- Wide range of use
- Wide process window
- Suitable for both SnPb and lead-free alloys
- Absolutely halogen free
- Clean solder joints



Preheating and Profile

In general a preheating is used to limit the temperature shock and to evaporate the solvent of the flux.

IF 8001 doesn't require a preheating. If possible, it is advisable to have the alcohol evaporated before going to soldering temperatures.

IF 8001 can be used in an SnPb reflow process for BGA rework. For lead-free BGA rework, **IF 6000** is recommended. However for rework of BGAs, the gel flux **IF 8300** is mostly used.

A reflow profile is usually determined by the alloy and the limitations of the used ma-

terials that are submitted to the reflow profile.

The use of nitrogen is not necessary but always advisable. Reducing atmospheres like nitrogen/hydrogen are possible.

In hand soldering and automated soldering it is always advisable to

keep the soldering tip temperature below 400°C. Higher temperatures are possible but will reduce soldering tip life. The use of Interflux® **TIP CLEANER** can prolong soldering tip life.

Test results

conform EN 61190-1-1(2002) and IPC J-STD-004A

Property	Result	Method
Chemical		
Flux designator	RE L0	J-STD-004A
Qualitative copper mirror	pass	J-STD-004A IPC-TM-650 2.3.32
Qualitative halide		
Silver chromate (Cl, Br)	pass	J-STD-004A IPC-TM-650 2.3.33
Quantitative halide	0,00%	J-STD-004A IPC-TM-650 2.3.35
Environmental		
SIR test	pass	J-STD-004A IPC-TM-650 2.6.3.3
Qualitative corrosion, flux	pass	J-STD-004A IPC-TM-650 2.6.15

Safety

IF 8001 is a highly flammable and should be treated accordingly. Please consult the safety datasheet for more information.



Packaging:

IF 8001 is available in the following packages:

Refillable flux pen

Non refillable flux pen

0,5L bottles

1L bottles

10 litres polyethylene drums

25 litres polyethylene drums

Trade name : IF8001 No-Clean Soldering Flux for Selective Fluxing Applications

D i s c l i m e r

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