



Soldering Flux TerrIFic RP65

INTERFLUX®
ELECTRONICS N.V.



Technical data RP65

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VOC-free, No-clean soldering flux for selective fluxing applications

Description:

TerrIFic RP65 is a VOC-free and no-clean soldering flux developed for selective fluxing applications.

TerrIFic RP65 shows excellent results on the most common SnPb and Pb-free alloys.

Typical processes where TerrIFic RP65 can be used are hand soldering, touch up, automated soldering, BGA Rework, ...

The flux has not been developed for selective wave applications.

The flux is absolutely halogen free, guaranteeing a high reliability after soldering.

The flux does not contain any rosin, providing for a high cleanliness after soldering. Depending on the amount of flux and the temperature profile, the flux evaporation rate may vary.

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 pen, by brush, by spraying, 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	: 1,00 g/ml ± 0,01
Colour	: clear
Odour	: sweet
Solid content (activity)	: 6,5 % ± 0,2
Halide content	: 0,00 %
Flash point (T.C.C)	: n.a.
Total Acid Number	: 44 mg KOH/g ± 2
IPC/ EN	: OR/ L0

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



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Key advantages:

- Wide range of use
- Wide process window
- Suitable for both SnPb and Pb-free alloys
- Absolutely halogen free



Preheating and Profile

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

TerrIFic RP65 is best used with preheating. If possible, it is advisable to have the water content evaporated before going to soldering temperatures.

A reflow profile is usually determined by the alloy and the limitations of the used materials that are submitted to the reflow profile.

Due to its wide process window, TerrIFic RP65 has little limitations towards SnPb or Pb-free reflow profiles.

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

In hand soldering and automated soldering it is advisable to keep the temperature below 400°C. Higher temperatures are pos-

sible, but can reduce tip life. The use of Interflux® **Tip Tinner** can increase the tip life.

Test results

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

Property	Result	Method
Chemical		
Flux designator	OR LO	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

TerrIFic RP65 is non hazardous. Please consult the safety datasheet for more information.



Packaging:

TerrIFic RP65 is available in the following packages:

Refillable flux pen

Non refillable flux pen

0,5L bottles

1L bottles

Trade name : TerrIFic RP65 VOC-free, No-Clean Soldering Flux for Selective Fluxing Applications

D i s c l i m e r

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