

## TECHNICAL DATA SHEET



### NXG-909

#### Rework Gel

#### Description

Nexus NXG-909 is Warton's next generation rework gel, leaving minimal clear, halogen free residues. Tested to industry standards including J-STD-004B and Bellcore (ECM), Nexus residues can be considered safe to remain on an assembly when no-clean technology is appropriate to the assembly end-use.

#### Test Data

Flux Classification J-STD-004B	ROLO
Quantitative Halide J-STD-004B	No Halogen
Surface Insulation Resistance J-STD-004B	Pass >100MΩ
Electrochemical Migration J-STD-004B	Pass
Electromigration Resistance GR78 Core	Pass
Copper Corrosion 10 day J-STD-004B	Pass
Copper Mirror Corrosion J-STD-004B	Pass

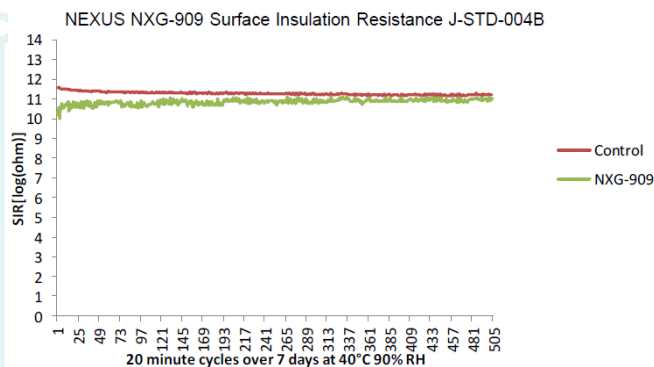
#### Benefits

- Halogen Free for increased reliability
- Powerful wetting on all board finishes
- Clear minimal residue
- Long tack and open times

#### Availability

Nexus NXG-909 Rework Gel is manufactured in the UK and is available in 10g and 30g syringes as standard, in both automatic or manual (supplied with a plunger and needle) variants.

Other stock units available upon request.



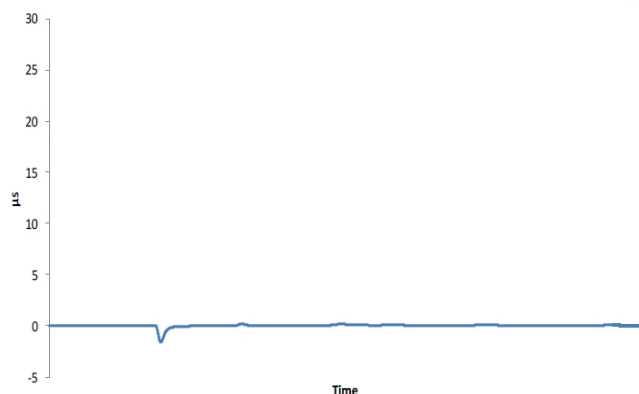
7 day continuous Surface Insulation Resistance test, testing cycles every 20 minutes at 5V. Showing no dendrite formation and far exceeding the J-STD-004B requirements of greater than 100 MΩ.



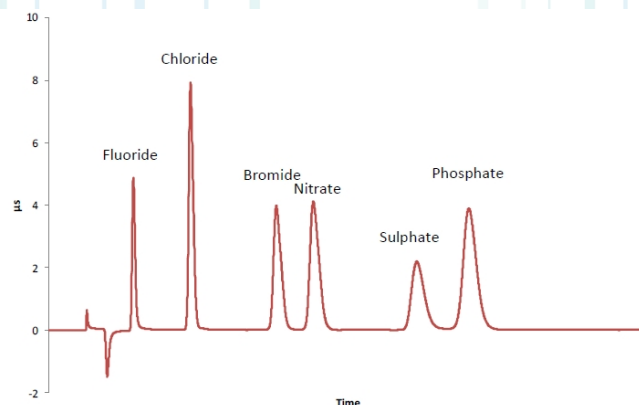
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### Halogen Free

Nexus NXG-909 rework flux passes the ion chromatography test for fluorides, chlorides and bromides in accordance with J-STD-004 revision B. This revision demands a reflow pre-treatment of the solder paste flux in accordance with IPC TM650 2.3.34. Older revisions of J-STD-004 do not test for covalent halogens and can lead to confusion by allowing halogen containing fluxes to be classified as ROL0. NXG-909 is a true halogen free type ROL0.



Ion chromatogram of NXG-909 reflowed flux residue in accordance to J-STD-004B, TM 650 2.2.34, showing no evidence of halide.



Ion chromatogram of halide analytical standard showing fluoride, chloride, bromide, nitrate, sulphate and phosphate as low as 3 mg Kg<sup>-1</sup>

### Commitment to Care

Lead free soldering represents a clear commitment to care for the long-term health of our planet and its inhabitants, by eliminating the use of toxic materials which can leech into the water supply. NXG-909 rework gel is not only formulated without the use of toxic materials, the activation system does not include any known carcinogens. Unfortunately, some manufacturers insist on using known carcinogenic halogen activators for their alleged superior activity, as these are only used in a low level, typically ~1% within the flux formulation, these activators are not reported in SDS documentation. Warton Metals offers a commitment to care for users of NXG-909 by never using known carcinogens, whilst still offering an improvement in performance and reliability. Nexus Solder Products and Warton Metals insistence on ethical product development allows you to fulfil your commitment to the environment and manufacturing performance whilst offering you peace of mind.

The information supplied in this technical data sheet is designed only as guidance for the safe use and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process (2020).