



SPR SERIES AQUEOUS FLUX CLEANERS

Surclean SPRXXXX Cleaners are Aqueous solutions formulated for fast, easy removal of flux residues and other soils from Electronic assemblies. Cleaning is achieved by a powerful Aprotic Solvent combined with dual action saponifiers. Cleaning levels easily exceed IPC and MIL standards when correctly applied in the cleaning process. Post cleaning residue levels of assemblies when correctly processed can equal the SIR and Electro-migration parameters for the bare PCB. The SPR materials have been tested for exceptional compatibility with Plastics, component markings, encapsulents and varnishes. The unique chemistry allows lower PH levels typically than competing products. This minimises the risk of dullness or damage to soldered joints and sensitive metals. Special wetting and surface active agents allow SPR Flux cleaners to penetrate under QFP's, BGA's and other low stand off height components with minimal use of mechanical agitation or Ultrasonics. After cleaning SPRXXXX materials are quickly and easily rinsed from the assembly. They are exceptionally economical to use, particularly in batch type or multi tank immersion type cleaning systems where they will continue to clean even when heavily saturated with flux residues. SPRXXXX flux cleaners are CFC, HCFC, HFE and phosphate free. They are ozone friendly, have a zero VOC content, are low odour and toxicity, and are completely biodegradable. They are all non flammable and have no specialized safety storage requirements.



Surclean SPR2050/SPR2100

SPR2050 is a high performance aqueous base cleaning material for removal of post solder residues, cleaning of misprinted PCB's and general manufacturing soils and greases. It is based on Aprotic solvent, dual Saponifiers and low foaming detergents, together with corrosion inhibitors for sensitive metals. It has been developed specifically for use in immersion type cleaning processes, from small benchtop Ultrasonic cleaners through to large multi stage systems with automatic handling. It is suitable for removal of the majority of cleanable flux residues and many no-clean types providing they have a sufficient Saponification factor to allow chemical cleaning. It is available pre diluted with high quality de-ionised water or as a concentrate for on site dilution. This allows customers to customise the dilution level for their particular requirements. SPR2100 is based on SPR2050, but specified at a higher active solvent concentration for enhanced removal rates of post solder flux residues including many hard to clean 'no-clean' types. It is available only as a pre diluted material. SPR2050 and 2100 is quickly and easily rinsed away with water. It is recommended that a final rinse using de-ionized water for the lowest residue levels. SPR2050 and 2100 variants are available in 5 and 25 litre containers.

Surclean SPR2300

Surclean SPR2300 is an exceptionally strong aqueous flux cleaner for removal of post solder flux residues and, paste from mis-printed PCB's and other manufacturing contamination. Like SPR2050 and 2100 it is based on a high performance Aprotic solvent, but with multiple Saponifiers and PH buffer control chemistry for maximum performance, even on difficult residues. It contains no detergents (Surfactants) and in normal use will not cause foam. SPR2300 is particularly recommended for spray in air type batch PCB cleaners and dishwasher type automatic cleaning systems, but has also been

used in systems ranging from benchtop Ultrasonic cleaning tanks through to large inline conveyer systems. It is usually supplied as a concentrate for dilution to the required level of cleaning performance. SPR2300 is rinsed away with water, with the final rinse usually carried out with deionised water. It retains the PR advantages of low odour, low toxicity and bio degradability with no flashpoint, and requires no special storage conditions. SPR2300 is available as a concentrate in 5 and 25 litre containers.

SPR Key Features

Powerful aqueous based formulation which is fast and easy to use and with low maintainance.

Versatile - SPRXXXX materials can be used in a wide range of cleaning methods from benchtop soak applications through to dishwasher, immersion and batch type automatic systems, all the way through to large automatic high volume inline systems.

Safe to use - Non volatile, non flammable, low odour, and low toxicity for maximum Operator safety and comfort.

Ultra low surface tension allows SPRXXXX materials to penetrate and clean under low stand off Height components such as QFP's and BGA's.

Safe for the environment - zero VOC's, Ozone friendly, and completely bio-degradable. Diluted SPRXXXX materials can be disposed of by incineration by licensed waste contractors. The SPR Materials by their own pose no risk, but used material can be saturated with acids and metal salts.

Wide process tolerance - SPRXXXX can be from ambient up to 50 deg. C. And with a range of Optional agitation methods. SPRXXXX requires no special storage conditions except to keep out of strong sunlight, and has a very long shelf life.

SMT-SURCLEAN,

SMT Technology Centre, Prospect Road, Cowes, Isle of Wight, United Kingdom, PO31 7AD
Tel: +44 (0) 1983 290333 Fax: +44 (0) 1983 295499 Email: info@surclean.co.uk
Website: www.surclean.co.uk