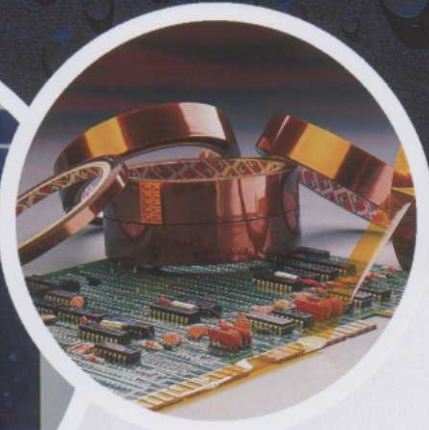


Keeping Technology Lines Moving



**QTEK**

# Corporate Overview

## Introduction

QTEK Manufacturing Ltd. is a leading global supplier of consumables for the electronics and associated industries. Our headquarters are in Galway, Ireland and we also have a manufacturing site in Mexico. QTEK has established an extensive network of distributors throughout

Europe, The Far East, Australia and North America and provides a focused range of quality products designed to improve manufacturing efficiencies and guarantee product quality.



## Company Strengths

QTEK Manufacturing Ltd. is an ISO 9001:2000 approved company and has established competitive advantages in the two core business areas of manufacturing and distribution. Rigorous quality control procedures ensure the consistently high standard of quality and reliability required for high-end electronics manufacturing. Similarly, QTEK only work with the most reputable and dedicated representative in each territory, to ensure QTEK products receive the necessary sales support around the globe.



Certificate of Registration No. 2922

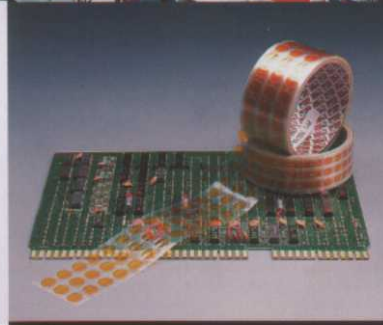
## Mission Statement

At QTEK, we strive to become synonymous with excellence in our chosen industries and are committed to providing the highest quality products possible, at a competitive price. With a dedicated research and development team, QTEK merges technological advances with our own in-depth product knowledge, to provide products best suited to our customers' needs. Our commitment to customer service is second to none; we aim to satisfy our customers with superior quality, value and sales support.



# Product Overview

QTEK has a large range of Consumables for Electronics Manufacturing



# Splice Kit

## Combined Splice & Clip Tape

QTEK's new, innovative design is an easy to use, labour saving development that ensures an accurate and reliable connection everytime. This single operation combines both the clip and splice tape on the one piece, eliminating the awkward handling problems commonly associated with the splicing process.

## Single & Double Splice Tapes

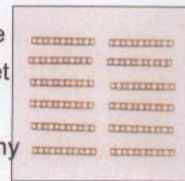
Single & Double Splice Tapes guarantee precise and secure connections of tapes in pick & place machines. To avoid unnecessary stoppages of machines these splice tapes provide precise attachment of top and bottom of the two tape ends. The cover tape is securely joined and can be peeled off continuously across the joint.

## Tape Splice Clip

These are brass clips with holes used with the tape splice tool. The shim includes holes to allow the material to go through the sprocket wheel of tape feeder, and points to secure it to the carrier tape. Supplied in boxes of 1000 or 4000 pieces, and can be used with any width tape.

## Cover Tape Extender

This part adds an extra 380mm to cover the tape of component reels. It saves components being wasted or discarded when starting a new tape through a feeder. It enables the use of tapes in full reels or short sections, without component loss. It has a strong adhesive bond between the extender piece and original tape, thereby ensuring they will not separate, even after prolonged time under tension.



Splice Station



**1.** When attaching a new reel, use the hand held splicing scissors to cut straight across the reel ensuring an accurate locating position for both reels.



**2.** Place the splice clip onto the locating pins of the splice tool, so that the clear film points away from the splice tool, and the backing material faces upwards.



**3.** Place the beginning of the new reel on to the placement pin on the right side of the splice clip.



**4.** Place the end of the old reel on to the placement pin on the left hand side of the splice clip.



### Splice Tool

QTEK has designed and developed a unique splice tool for crimping and attaching splice clips. It is durable, ergonomic and easy to use.



### Splice Scissors

QTEK's scissors ensures an accurate and aligned cut every time.



### SMT Special Splice Tape for Intelligent Feeder For Panasonic-Model CM402

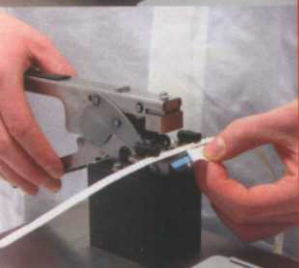
QTEK SMT Special Splice Tape is ideal for splicing new reels to old reels, for machines equipped with an intelligent feeder. Intelligent feeders contain a sensor, which record when, and what kind of component reel is loaded. Matt black tape is important for machine recognition and QTEK SMT Special Splice Tape is matt black in colour. It is proven to be both effective and reliable for use with Panasonic machines equipped with intelligent feeders.

| Part No.       | Description             | Qty.  |
|----------------|-------------------------|-------|
| <b>SST 108</b> | Single Splice Tape 8mm  | 1,000 |
| <b>SST 408</b> | Single Splice Tape 8mm  | 4,000 |
| <b>SST 112</b> | Single Splice Tape 12mm | 1,000 |
| <b>SST 412</b> | Single Splice Tape 12mm | 4,000 |
| <b>SST 116</b> | Single Splice Tape 16mm | 1,000 |
| <b>SST 416</b> | Single Splice Tape 16mm | 4,000 |
| <b>SST 124</b> | Single Splice Tape 24mm | 1,000 |
| <b>SST 424</b> | Single Splice Tape 24mm | 4,000 |
| <b>DST 108</b> | Double Splice Tape 8mm  | 500   |
| <b>DST 112</b> | Double Splice Tape 12mm | 500   |
| <b>DST 116</b> | Double Splice Tape 16mm | 500   |

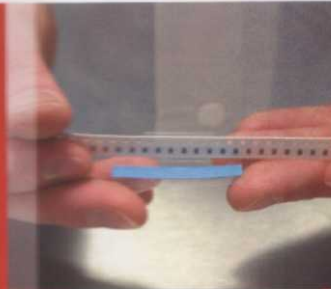
| Part No.       | Description                        | Qty.  |
|----------------|------------------------------------|-------|
| <b>TSC 175</b> | Splice Clips                       | 1,000 |
| <b>TSC 475</b> | Splice Clips                       | 4,000 |
| <b>CST 108</b> | Combined Splice Clip and Tape 8mm  | 500   |
| <b>CST 112</b> | Combined Splice Clip and Tape 12mm | 500   |
| <b>CTE 108</b> | Cover Tape Extenders 8 & 12mm      | 1,000 |
| <b>CTE 116</b> | Cover Tape Extenders 16mm          | 1,000 |
| <b>CTE 124</b> | Cover Tape Extenders 24mm          | 1,000 |
| <b>TST 50</b>  | Splice Tool                        | 1     |
| <b>TSC 50</b>  | Splice Scissors                    | 1     |
| <b>SST 50</b>  | Splice Station                     | 1     |



**5.** Compress the handles of the splice tool, until it clamps the splice clip.



**6.** Remove the backing material from the splice & clip tape and discard.



**7.** Remove the now joined reels from the splice tool and fold the clear side of the tape over the joint to affix the new and old reels together.



**8.** Remove the backing material and observe a perfect and reliable joint.

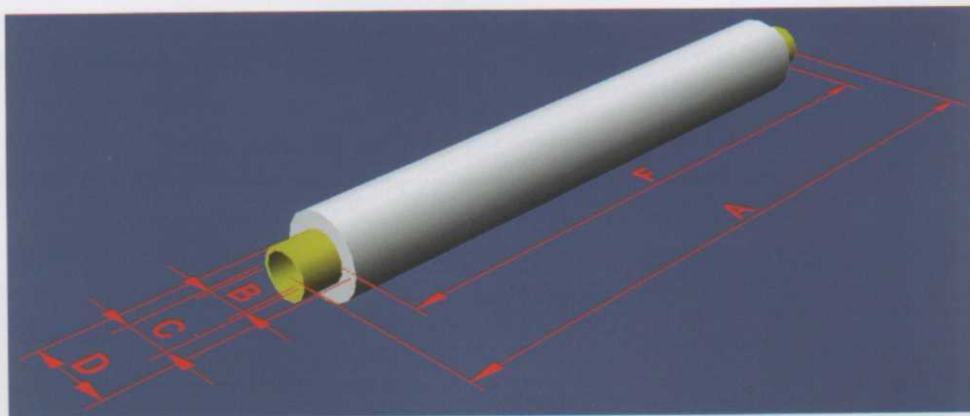
# Screen Cleaning Rolls

Screen cleaning rolls are essential components in keeping stencil printing machines clean and effective. Individual manufacturers configure their systems differently to use specific sizes and designs of underscreen cleaning rolls. It is imperative that these specifications are replicated exactly when choosing a screen roll. In particular, the quality of the wiping fabric must be sufficient to absorb solder paste and other contaminants, while remaining sufficiently porous for the vacuum unit to function.



## Custom Roll Designs

QTEK screen rolls are made to ensure that manufacturers' specifications are matched exactly in a variety of custom lengths designed to provide cost-effective solutions to varying vacuum and stencil dimensions. Each are made with the most absorbent and durable wiping fabrics available and are especially low linting.



QTEK have teamed up with DuPont to exclusively convert their Sontara Cleanmaster® wiping fabric for use in underscreen cleaning mechanisms. Sontara Cleanmaster® is a non-woven, extra strength material that has excellent wetting characteristics, which make it ideal for absorbing paste, solvents and adhesives. Together, QTEK and DuPont are making this Sontara Cleanmaster® material available for a variety of stencil printer cleaning units and the specially branded paper is clearly distinguishable from its inferior competitors. A list of current screen roll dimensions may be seen opposite, but custom designs can be made on request.



### Ultra Clean Screen Roll using Dupont's Fine Pitch Material

These are designed for printing processes where maximum cleaning action and zero fibre particle generation are required. Ultra Clean Rolls are comprised of 100% continuous filament polyester fibre that is especially absorbent and clean. The knit construction has been developed to ensure product integrity, cleaning performance and low particle generation. This soft roll will not scratch and becomes even softer when wet, while maintaining its strength. Ultra Screen Roll will not change any of its physical properties when used with most solvents. This material features a low level of soluble extractables and has a low electrostatic charge.

#### Product Features

- Compatible in class 10 environments
- Ultralow particle generation
- Ultralow extractable level
- Ultralow metallic ion content
- Super high absorbency
- Super high durability
- Versatile in a wide range wiping applications
- Clean room laundered and packaged
- Certified quality control with lot-to-lot traceability

#### Applications

- Hybrid Printing
- Wafer Bumping
- Ink Printing
- Cleanroom printing applications
- Enzyme Inks

| Part No. | Printer                   | Ref. No | "A" Core Length (mm) | "B" Core ID (mm) | "C" Core OD (mm) | "D" Roll OD (mm) | "E" Paper Length (m) | "F" Paper Width (mm) | Core Material | Notch |
|----------|---------------------------|---------|----------------------|------------------|------------------|------------------|----------------------|----------------------|---------------|-------|
| 2660*    | DEK Horizon/Infinity      | 115660  | 530                  | 19.6             | 22.6             | 58               | 11                   | 515                  | Perspex       | Yes   |
| 2662     | DEK Horizon/Infinity      | 115662  | 530                  | 19.6             | 22.6             | 58               | 11                   | 400                  | Perspex       | Yes   |
| 2664     | DEK Horizon/Infinity      | 115664  | 530                  | 19.6             | 22.6             | 58               | 11                   | 300                  | Perspex       | Yes   |
| 2300*    | MPM<br>AP27/UP2000/UP3000 | P1485   | 456                  | 19.4             | 25.4             | 63               | 11                   | 444                  | Cardboard     | No    |
| 2314     | MPM<br>AP27/UP2000/UP3000 | N/A     | 456                  | 19.4             | 25.4             | 63               | 14.3                 | 444                  | Cardboard     | No    |
| 2200     | MPM<br>AP27/UP2000/UP3000 | N/A     | 571                  | 19.4             | 25.4             | 63               | 11                   | 559                  | Cardboard     | No    |
| E 400*   | Ekra E-5                  | N/A     | 400                  | 12               | 19               | 47               | 7                    | 400                  | Cardboard     | No    |
| P 360    | Panasonic SPPG-1          | N/A     | 360                  | 38.1             | 41.1             | 76               | 11                   | 360                  | Cardboard     | No    |
| F 500    | Fuji GP 541               | N/A     | 500                  | 25.4             | 28.4             | 60               | 7.8                  | 500                  | Cardboard     | Yes   |
| SM 410   | SMTech/Quad D AVX-400     | N/A     | 410                  | 38.1             | 41.1             | 65               | 7                    | 410                  | Cardboard     | No    |
| K 350    | KME                       | N/A     | 350                  | 38.1             | 41.1             | 100              | 28                   | 350                  | Cardboard     | No    |
| SY 280   | Sanyo                     | N/A     | 280                  | 38.1             | 41.1             | 76               | 11                   | 280                  | Cardboard     | No    |

NOTE: \* Denotes the most commonly used screen rolls. The rest are just representative of the range of rolls that QTEK can provide. Please contact us for custom roll requirements. All we need to know is printer type, material width & length and we can do the rest!



# Pre-Saturated Wipes, Chemistries, & Sprays

Choosing a wipe that is ideally suited to your production needs can be difficult. Manufacturers tend to confuse by focusing on the wipe material, rather than its application. QTEK make the choice simple and effective by introducing their range of wipes, designed for specific production cleaning requirements.

QTEK provide a range of cleaning fluids and wipes saturated with these premium solvents in easy-to-use and unique flip-top containers. Each brand of wipe is impregnated with a chemistry designed for specific industrial cleaning tasks, such as solder paste removal, glass cleaning or bench sterilisation. Also now available are QTEK's spray bottles, containing 500ml of chemistry in a convenient trigger-action container.



## Adhesive Remover Fluid, Wipes and Spray

- Removes misprinted adhesives and pastes before they cure and attach themselves to screens or PCBs.
- Strong, yet non-destructive cleaning product, fast evaporating and odour-free.
- Ideal accompaniment to in-line cleaning systems where adhesives are dispensed.
- Available in tubs of 100 pre-saturated wipes, 500ml spray bottles and 5 Litre fluid containers. Space-saving, 100-wipe refill packs also available.

| Part No. | Description   |
|----------|---|
| 3110     | Adhesive Remover Pre-Saturated Wipes (Tub of 100)       |
| 3111     | Adhesive Remover Pre-Saturated Wipes Refill Pkt. of 100 |
| 6150     | Adhesive Remover Spray (500ml)                          |
| 4105     | Adhesive Remover Fluid (5 Litre)                        |
| 7110     | Adhesive Remover Wipes 15pk Pocket Size                 |



## Stencil Clean Fluid, Wipes and Spray

- Formulated specifically for the removal of stencil contaminants.
- Has a particular affinity for solder paste residue.
- Removes contaminants cleanly and without scouring the stencil surface.
- Odour-free and evaporates quickly to leave surfaces clean and dry.
- Typical uses: underscreen cleaning, misprinted PCBs, spatulas, printer interiors.
- Available in tubs of 100 pre-saturated wipes, 500ml spray bottle and 5 Litre fluid containers. Space-saving, 100-wipe refill packs also available.

| Part No. | Description  |
|----------|--|
| 3210     | Stencil Clean Pre-Saturated Wipes (Tub of 100)       |
| 3211     | Stencil Clean Pre-Saturated Wipes Refill Pkt. of 100 |
| 6250     | Stencil Clean Spray (500ml)                          |
| 4205     | Stencil Clean Fluid (5 Litre)                        |
| 7210     | Stencil Clean Wipes 15pk Pocket Size                 |



## Pure IPA Wipes, Fluid and Spray

- 100% Isopropyl alcohol.
- General purpose cleaner that can be used throughout the production process.
- Mixture designed to optimise evaporation time, flammability and deep cleaning.
- Sterile cleaner leaves surfaces and items free of contamination.
- Evaporates quickly without trace after cleaning has been completed
- Available in tubs of 100 pre-saturated wipes, 500ml spray bottles and 5 Litre fluid containers. Space-saving, 100-wipe refill packs also available.

| Part No. | Description                                     |
|----------|---|
| 3310     | Pure IPA Pre-Saturated Wipes (Tub of 100)       |
| 3311     | Pure IPA Pre-Saturated Wipes Refill Pkt. of 100 |
| 6350     | Pure IPA Spray (500ml)                          |
| 4305     | Pure IPA Fluid (5 Litre)                        |



## IPA/DI Fluid, Wipes and Spray

- General purpose cleaner that can be used throughout a production process.
- Evaporates quickly without trace after cleaning has been completed.
- Sterile cleaner that leaves surfaces and items free of contamination.
- 70% Isopropyl alcohol, 30% de-ionised water.
- Available in tubs of 100 pre-saturated wipes, 500ml spray bottle and 5 Litre fluid containers. Space-saving, 100-wipe refill packs also available.
- 0.2µ filtered IPA/DI is also available in 500ml spray bottles for ultra-high purity applications and environments.

| Part No. | Description                                   |
|----------|---|
| 3410     | IPA/DI Pre-Saturated Wipes (Tub of 100)       |
| 3411     | IPA/DI Pre-Saturated Wipes Refill Pkt. of 100 |
| 6450     | IPA/DI Spray (500ml)                          |
| 6465     | IPA/DI Spray 0.2 Micron Filtered (500ml)      |
| 4405     | IPA/DI Fluid (5 Litre)                        |
| 7410     | IPA/DI Wipes 15pk Pocket Size                 |





### Metal Clean Fluid, Wipes and Spray

- Tackles effectively the cleaning tasks that other solvents fail to master.
- Non-toxic stain dissolving solvent.
- Removes solder, inks, greases and oil based spills.
- Typical surfaces: stencils, spatulas, tools, workbenches and production machinery.
- Effective general purpose cleaner that tackles stains aggressively and safely.
- Available in tubs of 100 pre-saturated wipes, 500ml spray bottles and 5 Litre fluid containers. 100-wipe refill packs also available.

| Part No. | Description  |
|----------|--|
| 3510     | Metal Clean Pre-Saturated Wipes (Tub of 100)       |
| 3511     | Metal Clean Pre-Saturated Wipes Refill Pkt. of 100 |
| 6550     | Metal Clean Spray (500ml)                          |
| 4505     | Metal Clean 5 Litre                                |



### Bench Clean Wipes and Spray

- Ideal where sterile conditions are necessary.
- A single wiping stroke can remove dust, spills, solvents, oils and industrial contaminants.
- Wipes saturated in an ultra-pure chemistry and designed to eliminate linting.
- One-stop remedy to keeping work surfaces and areas free of impurities.
- Wipe made from special ESD dissipative material and dissolved in QTEK Bench Clean.
- Available in tubs of 100 pre-saturated wipes and 500ml spray bottles. 100-wipe refill packs also available.

| Part No. | Description  |
|----------|--|
| 3610     | Bench Clean Pre-Saturated Wipes (Tub of 100)       |
| 3611     | Bench Clean Pre-Saturated Wipes Refill Pkt. of 100 |
| 6650     | Bench Clean Spray (500ml)                          |



### Hand Clean Wipes and Spray

- Cleans hands quickly and effectively after exposure to industrial dirt and grime.
- Particularly effective on stains such as glues, solders or greases.
- Ideal for use on a production line, reducing the need to leave the line to scrub up.
- Fortified with a citrus scent for a pleasant and fresh odour.
- Hygienic and effective addition to your company's health and safety policy.
- Available in tubs of 100 pre-saturated wipes and 500ml spray bottles. 100-wipe refill packs also available.

| Part No. | Description                                       |
|----------|---|
| 3710     | Hand Clean Pre-Saturated Wipes (Tub of 100)       |
| 3711     | Hand Clean Pre-Saturated Wipes Refill Pkt. of 100 |
| 6750     | Hand Clean Spray (500ml)                          |
| 7710     | Hand Clean Wipes 15pk Pocket Size                 |



### Opti Clean Wipes and Spray

- Ideal for use on VDU screens, glass components, lenses and inspection/metrology equipment.
- Works quickly and effectively to keep glass/optical surfaces crystal clear.
- No rinse necessary, perfect for cleaning after final assembly.
- Available in tubs of 100 pre-saturated wipes and 500ml spray bottles. 100-wipe refill packs also available.

| Part No. | Description                                       |
|----------|---|
| 3810     | Opti Clean Pre-Saturated Wipes (Tub of 100)       |
| 3811     | Opti Clean Pre-Saturated Wipes Refill Pkt. of 100 |
| 6850     | Opti Clean Spray (500ml)                          |



### Dry Wipes

QTEK's wipes are made from tough, durable material resistant to tearing or disintegration, but which won't scratch or scrape sensitive surfaces. Made from highly absorbent non-woven fabrics for removing spills or misprints, QTEK's range of wipes are low linting and have excellent wetting characteristics. Each QTEK wipe is effective both as a dry wipe and with QTEK cleaning chemistries.

| Part No. | Description     | Size      | Wipes/Pack |
|----------|-----------------|-----------|------------|
| 5709     | SMT Wipe        | 9" x 9"   | 300        |
| 5909     | Cleanroom Wipe  | 9" x 9"   | 300        |
| 5512     | Industrial Wipe | 12" x 12" | 150        |



### Sontara Roll Wipes

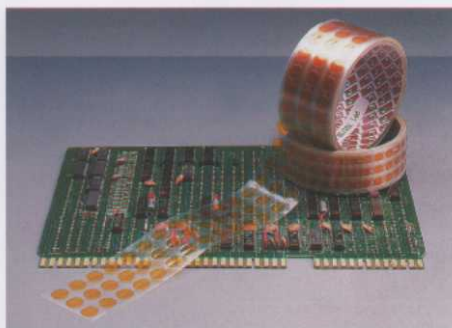
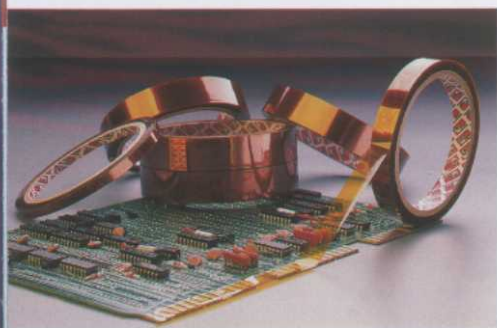
Sontara material is now available in perforated rolls for manual cleaning. It is low linting and very absorbent, providing highly effective cleaning properties. The rolls can be mounted on bench or wall stands for easy dispensing if required.

- Roll format wipes for easy dispensing and storage.
- Industry-leading Sontara™ Cleanmaster material.
- Available in 9" x 9" or 14" x 14" sizes.
- 300 wipes per roll.

| Part No. | Description               | Size      | Wipes/Roll |
|----------|---------------------------|-----------|------------|
| 5309     | Sontara Cleanmaster Wipes | 9" x 9"   | 300        |
| 5314     | Sontara Cleanmaster Wipes | 14" x 14" | 300        |

# High Temperature Masking Tape

QTEK Masking Tape is a polyimide, pressure-sensitive, adhesive tape with silicone resin which shows excellent dielectric insulation properties, high heat resistance and excellent solvent resistance. This makes it ideal for masking gold fingers of printed circuit boards during wave solder or solder dip process. These properties result in a tape with remarkable dimensional stability and excellent electrical and physical properties over a wide range of temperatures.



## High Temperature Dots

QTEK High Temperature Dots are used for solder wave masking and electrical insulation. They are composed of a polyimide film masking dots with silicone adhesive on a clear easy-release liner. QTEK High Temperature Dots are both flame and chemical resistant.

### Application Ideas

- Masking for protection of gold fingers of printed circuit boards during wave solder or solder dip process.
- Protection for parts cured at elevated temperatures.

### Application Advantages

- Offers optimal performance in electrical and thermal insulation.
- Highly resistant to heat and chemicals
- Puncture and tear resistant at high temperatures.

QTEK Tape is available in the following sizes

| QTEK P/N | Width | Length |
|----------|-------|--------|
| PT 0633  | 6mm   | 33mm   |
| PT 0933  | 9mm   | 33mm   |
| PT 1233  | 12mm  | 33mm   |
| PT 1533  | 15mm  | 33mm   |
| PT 1933  | 19mm  | 33mm   |
| PT 2533  | 25mm  | 33mm   |

QTEK Dots are available in the following sizes

| QTEK P/N | Width | Dots per Roll |
|----------|-------|---------------|
| DT 0605  | 6mm   | 1000          |
| DT 0805  | 8mm   | 1000          |
| DT 1005  | 10mm  | 1000          |
| DT 1205  | 12mm  | 1000          |

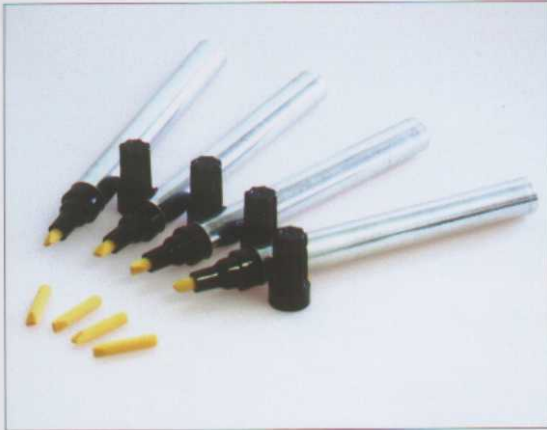
| Features                   | Advantages   | Benefits   |
|----------------------------|--|--|
| Polymide Film              | Dimensionally stable at high temperatures<br>Flame retardant, chemical and radiation resistant | No rework – high productivity<br>Protects surfaces, helping reduce replacement costs |
| Silicone Adhesive          | High temperature performance reduces adhesive transfer   | No cleaning required – helps increase productivity                                   |
| High adhesive to film bond | Reduces adhesive transfer  | No cleaning required – helps increase productivity                                   |
| ESD Safe                   | Static dissipative coated back   | Eliminates component degradation   |

### Technical Data

| Item                | Unit                | Property Data | Remark                 |
|---------------------|---------------------|---------------|------------------------|
| Structure           | -                   |               |                        |
| Base Film Thickness | μm                  | 25            |                        |
| Total Thickness     | μm                  | 70±2          |                        |
| Peel Strength       | gf/in               | 700±50        |                        |
| Tensile Strength    | kgf/mm <sup>2</sup> | >7            |                        |
| Elongation          | %                   | >50           |                        |
| Heat Resistance     | -                   | Good          | 230°/1hrs Heating Oven |
| Chemical Resistance | -                   | Good          | 20% HCl, Na OH/20hrs   |
| Appearance          | -                   | Good          |                        |

# Fluid Dispenser Pens

The Fluid Dispenser Pen is a multifunctional product, which increases precision in fluid dispensing and eliminates the mess associated with dispensing bottles. The chisel point, spring-loaded tip allows the user to determine the amount of liquid to be dispensed, thus reducing waste and chemical exposure.



While primarily used for flux dispensing, this diverse product can also be used for the dispensing of solvents, lubricants, masking, RMA chemistries, adhesives and water-based liquids. The Fluid Dispenser Pen prevents evaporation of material and conforms to current regulations for controlling substances capable of evaporation hazard. A unique dispensing valve prevents flooding and spattering, and releases liquid in controlled amounts to the nib.

## Assembly

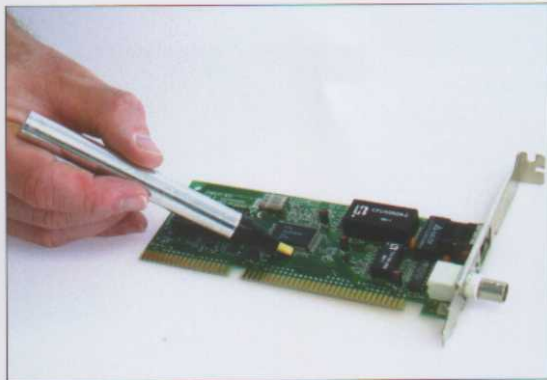
The Fluid Dispenser Pen is in two parts (cap and reservoir) and is easily assembled. The reservoir should be filled with material to within 19mm (0.75") of the top; this air chamber allows for the valve cap to be pressed securely in position. Priming is achieved by depressing the nib while the pen is vertical.

## Advantages

The Fluid Dispenser Pen is a unique tool, ideal for rework and touch up soldering. The diverse product can also be used for distribution of solvents, lubricants, masking, RMA chemistries, adhesives and water-based liquids. It allows controlled application of liquid, eliminating both waste and mess.

The Fluid Dispenser Pen is ideally suited for surface mount rework, component add-on applications, and tape-automated-bonding (TAB) assembly operations. The Fluid Dispenser Pen effectively solves the common problems of cold solder and unsoldered joints which are easily caused in the soldering process. Eliminating such problems reduces the cost of production and increases production efficiency.

Furthermore when used for Flux dispensing, the Fluid Dispensing Pen avoids the limitations of bottled flux in the process. Not only does it control the flow of flux in accordance with the requirements of the welding area, it also serves to simplify the operation process, with added security and reliability.



## QTEK Fluid Dispenser Pens

| Part No. | Description                              |
|----------|--|
| FP 100   | Fluid Dispenser Pen Regular              |
| FP 200   | Fluid Dispenser Pen, ESD safe, aluminium |

## QTEK Nibs

FP 202 – acrylic chisel



FP 204 – acrylic bullet



FP 206 – acrylic point



FP 208 – polyester chisel



## QTEK NIBS

| Part No. | Description          |
|----------|----------------------|
| FP 202   | Acrylic Chisel Nib   |
| FP 204   | Acrylic Bullet Nib   |
| FP 206   | Acrylic Point Nib    |
| FP 208   | Polyester Chisel Nib |

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