Picking the right solvent can be a daunting task. There are so many parameters to balance: cleaning power, component compatibility, safety, toxicity, drying speed, packaging, aroma and price, just to name a few. The list below is an attempt to simplify the selection process. For a more detailed analysis of your cleaning choices, check the interactive solvent selection guide at [www.MicroCare.Com](http://www.MicroCare.Com) or call the cleaning specialists at Micro Care.

### Circuit Board Cleaning

<table>
<thead>
<tr>
<th>Rosin Fluxes/Pastes (R, RA, RMA, SA Fluxes/Pastes)</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux Remover C 1,4</td>
<td>MCC-FRC</td>
<td>ProClean™ 1,2,3,4</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>“No Clean” Fluxes/Pastes, Mixed Types of Fluxes/Pastes</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>VeriClean™ Defluxer 1,2,3,4</td>
<td>MCC-DC1</td>
<td>IsoClean™ 1,2,3,4</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Water-Based Fluxes/Pastes</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux Remover C 1,4</td>
<td>MCC-FRC</td>
<td>ProClean™ 1,2,3,4</td>
</tr>
</tbody>
</table>

**A surprising capability from an HFC solvent. Great environmentally. Works on no-cleans, too.**

<table>
<thead>
<tr>
<th>Mechanical Parts Light Oils, Grease, Lubricants</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Duty Degreaser C 1,4</td>
<td>MCC-HDC</td>
<td>ExPoxy™ Remover 2,4</td>
</tr>
</tbody>
</table>

**Medium-strength. Great cleaning. Fast drying; targeted on organics. No aroma. Nonflammable.**

<table>
<thead>
<tr>
<th>Epoxies &amp; Chip Bonders (Uncured); Coatings (Acrylics)</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExPoxy™ Remover 2,4</td>
<td>MCC-EPX</td>
<td>SuprClean™ 1,2,3,4</td>
</tr>
</tbody>
</table>

**Most powerful hydrocarbon. Fabulous on uncured epoxies. Great on stencils and mis-printed PCBs.**

<table>
<thead>
<tr>
<th>Kapton® Tape, Pressure-Sensitive Labels, Glues</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>TidyPen Label Remover</td>
<td>MCC-P01</td>
<td>Bioact® EC7M 1,4</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Inks, Marking Pens</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScreenClean™ Ink Remover 2,4</td>
<td>MCC-CDI</td>
<td>ProClean™ 1,2,3,4</td>
</tr>
</tbody>
</table>

**Powerful, targeted cleaner. Great on UV-curable. Also good on uncured epoxies. Safe on screen emulsions.**

### Equipment Maintenance

<table>
<thead>
<tr>
<th>General Surface Cleaning (Fingerprints, Light Oils, Grime)</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic &amp; Glass Cleaner 2,4</td>
<td>MCC-PMG</td>
<td>StatMat™ ESD Cleaner 2,4</td>
</tr>
</tbody>
</table>

**Very good cleaning. Great toxicity ratings. No residues, no detergents, no streaks.**

<table>
<thead>
<tr>
<th>Burned-on Flux Residues (Reflow Ovens, Wave Solder Machines)</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relflow Oven Cleaner 2,4</td>
<td>MCC-ROC</td>
<td>ExPoxy™ Remover 1,2,3,4</td>
</tr>
</tbody>
</table>

**Excellent cleaner. Great on wave solder systems, pick-and-place systems. No aroma. Nonflammable.**

<table>
<thead>
<tr>
<th>Stencil Cleaning (Solder Paste)</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGA Stencil Cleaner 2,4</td>
<td>MCC-BGA</td>
<td>Axarel® 2200 1,2,3,4</td>
</tr>
</tbody>
</table>

**Medium drying. Versatile. Great on pastes and epoxies. Nonflammable.**

<table>
<thead>
<tr>
<th>Contact Cleaning</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Cleaner C 1,4</td>
<td>MCC-CCC</td>
<td>Precision Cleaner II 1,2,3,4</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>ESD Table Mats</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat Mat™ ESD Cleaner 2,4</td>
<td>MCC-MAT</td>
<td>RossTech® 106FE 1</td>
</tr>
</tbody>
</table>

**Nonflammable. Renews ESD surfaces to protect components.**

### Bulk Cleaning Systems

<table>
<thead>
<tr>
<th>Heated Vapor Defluxing/Degreasing Systems</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertrel® CML 1,4 or Vertrel® CCA 1,4</td>
<td>MCC-CMS, MCC-CCA</td>
<td>Vertrel® SMT 1</td>
</tr>
</tbody>
</table>

**Medium-strength HFCs. Great cleaning. Fast drying; great on inorganics. Nonflammable.**

<table>
<thead>
<tr>
<th>Unheated Ultrasonic Systems, and Stencil Cleaning Systems and Emersion Systems</th>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGA Stencil Cleaner 2,4</td>
<td>MCC-BGA</td>
<td>RossTech® 106FE 1</td>
</tr>
</tbody>
</table>

**Medium drying; water-based, more versatile than Oven Cleaner. Nonflammable.**

### Trademarks:

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**DISCLAIMER:** This is a general guide to cleaning applications and is not meant to replace individualized discussions. Micro Care publishes this information from sources believed to be accurate. Micro Care does not guarantee the accuracy of the data and assumes no liability in connection with using it. Micro Care’s liability is limited to the replacement of product. Specifications are subject to change without notice.

**For more information call (860) 827-0626 • In North America, dial 1-800-638-0125**
Upgrade Your Benchtop Cleaning

Look at all the ways your boards have changed and improved over the years. You’ve improved the way you manufacture them. You’ve improved their performance, their design, the materials and the components. At most facilities, about the only thing that hasn’t changed is benchtop cleaning!

Here’s the simple truth: if your techs are using “dip and brush” cleaning – and about 75% of the electronics industry still is! – they cannot rinse the contamination off the board. If you can’t rinse, you can’t clean.

What about high-pressure aerosols? They certainly are convenient. But they are extravagantly wasteful, and they expose your people to fumes and overspray.

The Trigger Grip™ system from Micro Care solves all these problems. It combines the inexpensive mechanical scrubbing of a brush with the speed and convenient rinsing of an aerosol. This instantly upgrades your benchtop cleaning. It standardizes benchtop cleaning into a convenient four-step process: wet, scrub, rinse, and dry. Each tech gets better control of the solvent and the whole cleaning process, so it’s no surprise to find they do a better cleaning job.

The Trigger Grip pays for itself. Each Trigger Grip will help your techs clean better, faster and more safely, with less elbow grease. Companies save time, save solvent, eliminate waste, reduce their reject rates and improve quality. In fact, many companies find the Trigger Grip system slashes benchtop cleaning costs by 50% or more, saving money while protecting their people and the environment.

The Trigger Grip system from Micro Care — simply a better idea!

NEW: FOR TECHS WITH TOOL KITS

Here’s another new idea from Micro Care. Many companies have technicians who travel to perform troubleshooting, maintenance and repair. But the airlines don’t allow aerosol cleaners on planes any more. Either the solvents get shipped in advance — which is expensive — or the tech goes solvent shopping as soon as he gets off the plane… with expensive and unpredictable results.

Micro Care has the answer with TravelSAFE™ products. TravelSAFE solvents can be thrown in the tool kit without worries. Look for the TravelSAFE™ logo on solvents and products throughout his catalog. For more details, see the green box on Page 5, or call Micro Care.
The Solvent Miser™
The most popular Trigger Grip. Slashes solvent consumption, minimizes worker exposure to solvent fumes; minimizes user fatigue. Virtually indestructible, including hose and aerosol connectors. Produced from ESD-dispersive materials; complies with MIL-STD-2000 requirements. Equipped with the standard brush. The Slo-Flo Solvent Miser™ Trigger Grip is identical but equipped with the money-saving slo-flo brush. Ideal for use with slow-drying solvents. Patented.

Standard: #MCC-ESD
Slo-Flo: #MCC-ESD2

The Original Trigger Grip™
The same functionality as the Solvent Miser, but without the same durability and with slightly less ESD protection. Patented.

Standard: #MCC-STB
Slo-Flo: #MCC-STB2

StatZap™ ESD Eliminator
Use this durable stainless steel nozzle on canned air, freeze sprays and high pressure aerosols. It reduces ESD voltages generated by plastic spray tubes to a harmless 50 volts or less. The swagged CoronaTip™ sucks away harmful ESD. Unique plastic Shock-Shield™ sheathing prevents inadvertent contact with energized circuits. Patented.

For more information — Product Spec PS-73 #MCC-ZAP

The StatZap™ reduces the risk of ESD damage from high-pressure sprays.

Bench Mounting Kit
A low-cost, two-piece system that holds the Trigger Grip and the can of solvent vertically at the workbench. ESD-safe. Extremely durable. Extends Trigger Grip life. Ensures that aerosol cans will empty completely.

#MCC-BK

What Does “TravelSAFE™” Mean?
In 2003 Micro Care introduced a new concept for technicians on the go: TravelSAFE™ products. These unique products enable technicians to carry solvents on commercial aircraft. They also reduce shipping costs, avoiding all the extra fees associated with shipping hazardous chemicals. These savings can be 75% or more of hazmat freight costs.

Each solvent is a non-flammable, non-hazardous, neutral pH cleaner. These are packaged in a 3 oz/85 gram pump spray. The pump spray is unpressurized and leak-proof containing approximately 400 sprays. This makes the TravelSAFE package ideal for tool boxes, instrument cases and installation kits.

The TravelSAFE package complies with all applicable safety regulations. Specifically, the TravelSAFE products are nonhazardous as defined by IATA “Dangerous Goods Regulations” (44th Edition) for air transport; by the Code of Federal Regulations; Title 49, Subchapter C, Parts 171 thru 180 for ground transport; and by the International Maritime Organization (IMO), “International Maritime Dangerous Goods Code” Amendment 31, for ocean shipments.

For more information — Call (860) 827-0626
In North America, dial 1-800-638-0125
HIGH-PERFORMANCE DEFLUXERS

Flux Remover C

“Versatile” is the best way to describe Flux Remover C. Based on new solvent technology from DuPont, this is an excellent defluxer – especially on hard-to-clean “no-clean” fluxes and many water-based fluxes and pastes. With an ultra-low surface tension, it is the best choice for cleaning under tight-fitting BGA chips. It can also be used on through-hole boards, SMT designs, hybrid circuits, cables and connectors.

Noncorrosive and ultra-pure, static-safe Flux Remover C is safe on components and plastics. It is nonflammable, quick-drying and has only a very slight aroma. Residue-free, rinsing is never required. It is ozone-safe, has a low global warming factor and a reduced VOC content. It is certified by DuPont for use in ultrasonic machines and vapor degreasers.

Select Flux Remover C when affordable, fast-drying, nonflammable, ozone-safe cleaning is required.

- Excellent defluxer
- Targeted on ionic contamination
- Nonflammable and fast drying
- Very slight aroma
- Great on “no-cleans”
- Available in TravelSAFE™ packaging

For more information — Product Spec PS-91

VeriClean® Defluxer

The “Gold Standard” in ozone-safe, people-safe, budget-safe cleaning. This powerful defluxer serves double-duty as a medium-strength degreaser. It works great on rosin- and “no-clean” fluxes and pastes; almost any oil or light grease, and many adhesives. It literally melts away “solventless” silicone-based conformal coatings. Select VeriClean when acceptance by benchtop techs is a crucial factor.

- Excellent defluxer
- Targeted on ionic contamination
- Nonflammable and fast drying
- Very slight aroma
- Great on “no-cleans”
- Available in TravelSAFE™ packaging

For more information — Product Spec PS-72

SuprClean™ Defluxer

Excellent on all rosin based fluxes. Featuring innovative new solvents from DuPont, this unique cleaner is optimized for ozone-safe benchtop-level defluxing and degreasing. It dries quickly and is nonflammable. It has the best toxicity ratings of any solvent in its class. It compares to 1,1,1-TCA in cleaning strength but is completely ozone-safe. Test on plastics. Static-safe. Low odor.

Select SuprClean for super-powerful, fast-drying, nonflammable cleaning.

- Featuring Vertrel® HFCs
- Nonflammable
- Fast drying
- Good toxicity ratings
- Highly effective on rosin fluxes
- Exclusively from Micro Care

For more information — Product Spec PS-83

Other Choices

SpecClean® III


- Excellent toxicity ratings
- Very good on rosin fluxes
- No rinsing

For more information — Product Spec PS-76

Genesolv® 2004


- HCFC-141b based
- Powerful
- Nonflammable

For more information — Product Spec PS-16

Legend

- USER-FRIENDLY: FAST DRYING AND/OR LOW AROMA
- PLASTIC-SAFE
- ESD-SAFE
- NON-FLAMMABLE
- OZONE-SAFE
- MIL-SPEC APPROVED
- LOW VOC OR VOC-EXEMPT

For more information — Product Spec PS-83
**MONEY-SAVING DEFLUXERS**

**ProClean™**
For years our best-selling product, this cleaner delivers surprisingly strong cleaning despite its humble ingredients. A blend of three ultra-pure water-free alcohols, it is the strongest of the alcohol-based choices. It is safer than rubbing alcohol and an excellent choice on R, RA, SA, RMA, OA fluxes and “no-cleans.”


Select ProClean when working on military products, or when cost containment is more critical than productivity.

- Great on solder pastes, fluxes and fresh chip-bonder
- Economical slow drying
- Suitable for military work
- Extremely cost-effective

For more information — Product Spec PS-45

**Axarel® 2200**
For more than a decade, Axarel 2200 has been a trusted cleaner around the globe. This active hydrocarbon solvent is formulated for defluxing and degreasing. It works great on all fluxes, pastes, epoxies, grease and oil. Slight musty aroma. No rinsing. IPC Phase II approved. Combustible. Biodegradable. Ozone-safe. Generally plastic-safe.

Select Axarel when cleaning a wide variety of contamination and when slower drying is desirable.

- Great on all fluxes and pastes
- Medium drying
- Modest aroma

For more information — Product Spec PS-55

**MultiClean™**

Not available in aerosol; only in presaturated wipes and bulk (unpressurized) packaging.

For more information — Product Spec PS-42

**Bioact® EC7M**

- Naturally-occurring solvent
- Characteristic citrus aroma

For more information — Product Spec PS-18

**HyperClean™**
Similar to Genesolv 2004, but with additives which reduce solvent use and increase tack time. This Class II Ozone Depleting Solvent is being phased-out. Available only while supplies last.

For more information — Product Spec PS-57

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**Techs like these rugged cardboard “cubitainers” because they eliminate lifting heavy pails of solvent, avoiding spills.**

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**ProClean™ Flux Remover**
- 12 oz./340 g Aerosol MCC-PRO
- 1.87 lbs./0.84 kg Presaturated Wipes MCC-PROW
- 1 lbs./480 g Presaturated Wipe Refill MCC-PROWR
- 6 lbs./2.72 kg Minicube MCC-PROG
- 32 lbs./14.51 kg Cubitainer MCC-PROP
- 360 lbs./163.27 kg Drum MCC-PROD

**MultiClean™ OA Flux Remover**
- 1.87 lbs./0.84 kg Presaturated Wipes MCC-MLCW
- 1 lbs./480 g Presaturated Wipe Refill MCC-MLCWR
- 6 lbs./2.72 kg Minicube MCC-MLCG
- 6 lbs./2.72 kg Minicube MCC-MLCP
- 32 lbs./14.51 kg Cubitainer MCC-MLCG
- 360 lbs./163.27 kg Drum MCC-MLCP

**Axarel® 2200**
- 10 oz./284 g Aerosol MCC-AXL
- 1.87 lbs./0.84 kg Presaturated Wipes MCC-AXLW
- 1 lbs./480 g Presaturated Wipe Refill MCC-AXLWR
- 6 lbs./2.72 kg Minicube MCC-AXLG
- 35 lbs./15.88 kg Cubitainer MCC-AXLP
- 365 lbs./165.90 kg Drum MCC-AXLD

**Bioact® EC7M**
- 10 oz./284 g Aerosol MCC-EC7M
- 6 lbs./2.72 kg Minipail MCC-EC7MG
- 35 lbs./15.88 kg Pail MCC-EC7MP
- 399 lbs./180.99 kg Drum MCC-EC7MD

**HyperClean™**
- 12 oz./340 g Aerosol MCC-HYP
- 9 lbs./4.08 kg Minipail MCC-HYPG
- 50 lbs./22.68 kg Pail MCC-HYPP
- 525 lbs./238.14 kg Drum MCC-HYPD

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For more information call (860) 827-0626 • In North America, dial 1-800-638-0125
SMT MAINTENANCE PRODUCTS

BGA Stencil Cleaner

The BGA Stencil Cleaner is a versatile formulation which blends nonflammable water-based ingredients with aggressive long-chain alcohols. The result is a powerful cleaner which removes all types of solder paste, uncured chip bonders and inks. It is safe for stencils, webbing, frames and misprinted boards. This highly active cleaner minimizes the risk of damage from scrubbing with less powerful cleaners. And, yes, it can be used on standard SMT stencils as well.

The BGA Stencil Cleaner is formulated to work at room temperature. But since it is nonflammable, it also can be used in ultrasonic cleaning systems and in dip tanks. It is not suitable for use in the stencil printers themselves.

Safe on all metals, synthetics, plastics and elastomers, the BGA Stencil Cleaner leaves no residues and has a very modest aroma. It is noncorrosive and generally nontoxic. Completely ozone-safe, with a low VOC content and no global warming potential.

- Speedy stencil cleaning
- Economical, slow drying
- New, NAFTA-compliant labels
- Nonfoaming — Safe for ultrasonics
- Refillable pump spray

For more information — Product Spec PS-79

High-Performance Reflow Oven Cleaner

The High-Performance Reflow Oven Cleaner instantly melts away burned-on flux residues from wave solder machines and reflow ovens using a mix of water, alkaloids and long-chain alcohols. Strong, nonflammable and with almost no aroma, tests indicate the Oven Cleaner cleans twice as fast as isopropanol.

The cleaner works best when wiping and scrubbing warm soldering systems (>40˚C/100°F). The residual heat boosts the solvent’s cleaning power. Heat also can be used in dip tanks and ultrasonic cleaners to further enhance the solvent’s cleaning.

This product cleans all types of flux residues. It is safe on pallets, baffles, heating elements, clamps, chains, drive gears and housings. When used on a warm oven, the cleaner dries quickly, leaves no residues and is noncorrosive. (At room temperature, it leaves a slight oily coating which evaporates slowly.) It is completely ozone-safe, with a low VOC content, low global warming and is generally nontoxic.

- Fast, easy oven cleaning
- Nonflammable, water-based
- New, NAFTA-compliant labels
- Refillable pump spray

For more information — Product Spec PS-79

MAINTENANCE CLEANERS

Micro Care’s SMT maintenance products are packaged in money-saving refillable pump sprays. Packaged ten to a box, these products use metal, ESD-safe cans. Included in each box are 100 lint-free stencil wipes (#MCC-W11). These products are non-regulated, non-hazardous for shipping purposes, which means technicians can safely and legally carry them on aircraft.

BGA Stencil Cleaner
12 oz./340 g Pump Spray (Refillable) MCC-BGA
7 lbs./3.18 kg Minicube MCC-BGAG
32 lbs./14.51 kg Cubitainer MCC-BGAP
400 lbs./181.44 kg Drum MCC-BGAD

High-Performance Reflow Oven Cleaner
12 oz./340 g Pump Spray (Refillable) MCC-ROC
7 lbs./3.18 kg Minicube MCC-ROCG
32 lbs./14.51 kg Cubitainer MCC-ROCP
364 lbs./165.08 kg Drum MCC-ROCD

Micro Care’s BGA Stencil Cleaner works on standard SMT stencils, too. In fact, because it’s nonflammable and non-foaming, it works great in stencil cleaning machines and ultrasonic dip tanks. It’s a versatile, powerful, safe all-around surface cleaner and degreaser.
SURFACE CLEANERS

Plastic, Metal and Glass Cleaner

This is the strongest general-purpose surface cleaner ever offered by Micro Care. It is formulated for cleaning worktops, cabinets, housings, keyboards, keypads, switches and relays, test equipment, conveyors, hand tools and all the other equipment found in the factory environment. It easily wipes away light grime, oils, fingerprints, pencil marks, pen inks and even coffee stains.

This cleaner contains no detergents. Those sticky, soapy residues never evaporate, and when they get behind keyboards they attract dirt and cause more problems than they solve.

Originally formulated for those communities with tight VOC restrictions, it is so powerful and effective that now everybody loves it and uses it!

This cleaner is completely safe on all metals, paints, ceramics, glass, worktops and plastics. It leaves no residues and is noncorrosive. No rinsing required. Fast drying when wiped. Nonflammable. Good toxicity ratings.

- Water-based, nonflammable
- Refillable pump sprayer
- Not for use on static dissipative mats

For more information — Product Spec PS-79

StatMat™ ESD Cleaner

This cleaner enhances and extends a facility’s ESD program. As a general rule, every worktop mat and floor mat should be cleaned once each shift. Micro Care has found dirty tools and mats on workbenches harboring up to 30,000 volts. After a thorough cleaning with StatMat, in less than 60 seconds, the voltage dropped to safe levels and, in some tests, to zero. This means this product quickly pays for itself in fewer defects and lower warranty costs.

There are three chemicals which must not be used to clean ESD mats: alcohols, ammonia, or high pH caustic soaps. StatMat™ ESD Cleaner avoids all of those damaging chemicals, which greatly improves ESD protection.

- Water-based, nonflammable
- Refillable pump sprayer
- To protect mats, Neutral PH
- Mild, strawberry-like aroma

- To protect mats, Neutral PH
- Mild, strawberry-like aroma

For more information — Product Spec PS-79

TidyPen® — The Original Pocket-Sized Cleaning Pen


- Recyclable, ESD-safe
- Dissolves anything sticky
- Biodegradable citrus solvent
- A naturally-occurring product

For more information — Product Spec PS-40

Legend

- USER-FRIENDLY: FAST DRYING
- AND/OR LOW AROMA
- PLASTIC-SAFE
- ESD-SAFE
- NON-FLAMMABLE
- OZONE-SAFE
- MIL-SPEC APPROVED
- LOW VOC OR VOC-EXEMPT
Heavy Duty Degreaser C

This is an environmentally progressive cleaner which is affordable, powerful and nonflammable. Formulated for removing organic contamination, such as oils, light grease and lubricants, from all types of metal, ceramic and plastic.

Noncorrosive and ultra-pure, it is an excellent choice for semiconductors, disk drives, switches and relays, motors and coils, gyroscopes, medical devices and any application in which reliability and performance are crucial.


Select Heavy Duty Degreaser C when removing organics from mechanical parts, especially if the part is likely to entrap solvents.

- Fast-drying, nonflammable
- Great on organics
- Unexpectedly affordable
- Safe in vapor degreasers
- Available in TravelSAFE™ packaging

ExPoxy™ Remover

The most powerful hydrocarbon cleaner. Your best choice for removing uncured chip bonder from mis-printed boards, as well as tidying up spills and drips on machinery. ExPoxy gives technicians the most time to work with semi-cured chip-bonders. Works great on solder pastes, some inks, oils and grease. Mild, musty aroma. Static-safe. Plastic-safe. Ozone-safe. Combustible.

- Superior surface cleaning
- Economical slow drying

For more information — Product Spec PS-76

Axarel® 2200


- Medium drying; modest aroma

For more information — Product Spec PS-55

Heavy Duty Flux Remover III


For more information — Product Spec PS-76

Ionox® BC


For more information — Product Spec PS-46

POWERFUL DEGREASERS

The new DuPont lubricants are clever, taking proven lubricating technology and making it better with fluoropolymer additives. These lubes out-perform all of the cheap consumer lubricants, lasting longer and working better. Money-saving industrial size package. Another first from Micro Care.
CONTACT CLEANERS

All of the Micro Care contact cleaners are nonflammable, fast-drying, non-conductive and generally plastic-safe. This allows them to be sprayed on circuits and machinery safely. Micro Care does not use — and strongly urges others not to — flammable solvents as contact cleaners.

Featured Product

Contact Cleaner C

This is the highest-performance precision contact cleaner formulated by DuPont. It is nonflammable, nonconductive, plastic-safe and dries instantly, with almost no aroma. It can be used safely on circuit boards, cable harnesses, rinsing grit from electromechanical relays, dust from keyboards and light oils from solvent-trapping motor windings.

This is the most affordable cleaner in its class. Completely ozone-safe and 100% VOC-exempt. Safe on plastics, rubber and elastomers.

- Plastic-safe
- Completely ozone-safe
- Non-VOC
- Ultra-fast drying
- Nonflammable
- Available in TravelSAFE™ packaging

For more information — Product Spec PS-93

Other Choices

Precision Contact Cleaner III

A proven blend of ozone-safe HFE cleaners for mild, plastic-safe cleaning. Nonflammable.

For more information — Product Spec PS-76

Precision Contact Cleaner II


For more information — Product Spec PS-60

Precision Electronics Cleaner


For more information — Product Spec PS-47

LUBRICANTS

VDX Dry Lubricant Aerosol

A nonmigrating "pinpoint" lubricant for metal, plastic, ceramic, glass and wood. Plastic-safe, nonflammable, ozone-safe HFC carrier using 1.5% solids. No drips, runs or clumping! Great mold release. Available in aerosol and in bulk. Other dry lubricants available; others can be custom-formulated.

For more information — Product Spec PS-51

DuPont Silicone Lube

A gentle, plastic-safe silicone lubricant enhanced with Krytox®. Clean, non-corrosive and will not evaporate, even in extreme temperatures. Waterproofs, protects and preserves rubber, plastic, leather, metal and wood; use on treadmills and fan belts. Protects steel, aluminum and chrome from s alt, chlorine and corrosives. Has a very broad operating temperature (-40°F to +400°F)

For more information — Product Spec PS-92

DuPont Multi-Use Lube

An all-surface, all-condition molybdenum lubricant enhanced with Teflon®. A wet penetrating spray that sets-up clean, hard, long-lasting. Use on chains and linkages; bolts, threaded fittings; hinges, locks and latches; springs, pivots, cams and shafts; bearings, pulleys, wheels; and even zippers. Features a patented "self-cleaning" technology, so parts stay cleaner, work better and last longer.

For more information — Product Spec PS-47

DuPont Lithium Grease

The DuPont Lithium Grease with Teflon® is for long-term, high-endurance lubrication. It will not melt or breakdown even under extreme heat or the heaviest loads. Ideal for gears and shafts, heavy-duty chains, conveyors, rollers and tracks, hinges, brake parts, bearings, fan motors, sprockets, winches and more.

For more information — Product Spec PS-47

Contact Cleaner C

3 oz./85 g TravelSAFE™ pump MCC-CCCS
10.5 oz./300 g Aerosol MCC-CCC
10 lbs./4.54 kg Minipail MCC-CCCP
50 lbs./22.68 kg Pail MCC-CCCD
500 lbs./226.80 kg Drum MCC-CCCD

Precision Contact Cleaner II

16 oz./454 g Aerosol MCC-PC2
10 lbs./4.54 kg Minipail MCC-PC2G
50 lbs./22.68 kg Pail MCC-PC2P
500 lbs./226.80 kg Drum MCC-PC2D

Precision Contact Cleaner III

16 oz./454 g Aerosol MCC-PC3
10 lbs./4.54 kg Minipail MCC-PC3G
50 lbs./22.68 kg Pail MCC-PC3P
500 lbs./226.80 kg Drum MCC-PC3D

Precision Electronics Cleaner

12 oz./340 g Aerosol MCC-PEC
10 lbs./4.54 kg Minipail MCC-PECG
52 lbs./22.68 kg Pail MCC-PEDP
500 lbs./226.80 kg Drum MCC-PEDCD

VDX Aerosol Dry Lubricant

12 oz./340 g Aerosol MCC-VDX

DuPont Lubricants

Multi-Use Lubricant, 11 oz. MCC-9203
Multi-Use Lubricant, 4 oz. MCC-9206
Silicone Lubricant with Krytox®, 10 oz. MCC-9204
White Lithium Grease with Teflon®, 10 oz. MCC-9205

For more information — Product Spec PS-47

CONTACT CLEANERS

A true contact cleaner meets four requirements: fast-drying, nonflammable, plastic-safe and nonconductive (that’s right – they must not be ESD-safe). These demanding requirements make contact cleaners more expensive than ordinary defluxers and degreasers. Check your requirements – maybe you can save money by switching to a simple defluxer or head cleaner. But here’s an even more important tip from Micro Care: Micro Care recommends that no aerosol, including our own contact cleaners, be sprayed on systems which are still electrically energized. For maximum safety, always clean systems which have been powered-off.

For more information call (860) 827-0626 • In North America, dial 1-800-638-0125
TRADITIONAL AEROSOLS

Micro•Freeze™ Circuit Chillers
Chills to lower than -45°C in seconds. Used to locate intermittent faults in delicate components. Ultra-pure, ozone safe, nonflammable.
*For more information — Product Spec PS-50*

Anti-Stat Micro•Freeze™
*For more information — Product Spec PS-50*

IsoClean™ Video- and Tape-Head Cleaner
Your "Basic Alternative Cleaner." Mild cleaning with ultra-pure, water free, isopropanol. A great head cleaner. Static-safe. Mil-spec approved and mild defluxer, well-suited to "no clean" fluxes and pastes.
*For more information — Product Spec PS-48*

Related Products
StatZap™ ESD Eliminator
A durable, stainless steel dispensing nozzle for all high pressure aerosols. It eliminates ESD damage from the friction of solvent racing down plastic spray tubes, reducing ESD voltages to a harmless 50 volts or less. Shown on a can of Micro•Blast “canned air” on the upper left-hand corner of this page.
*For more information — Product Spec PS-73*

SOLVENTS FOR VAPOR CLEANERS

Vertrel® MCA Plus Degreaser
Nonflammable, ozone-safe solvent for vapor degreasers and ultrasonic tanks. Very strong cleaning on grease and oils.

Vertrel® XP Displacement Cleaner

Vertrel® XMS Plus Defluxer
Nonflammable, ozone-safe solvent for surface mount electronics. Very good on R and RMA fluxes.
Stencil Wipes

Featuring ProClean™ Solvent

The best-selling tub wipe: powerful, versatile and yet economically priced. Ideal for cleaning rosin and most “no clean” solder paste from precision SMT stencils. Versatile, low aroma, good tack time.


Select these Wipes for general, all-purpose cleaning of stencils and boards.

For more information about ProClean—See Product Spec PS-45

Economy Wipes

Featuring MultiClean™ Solvent

This low-cost stencil wipe easily lifts away all types of solder paste, particularly OA and “no clean” pastes. However, the product is not a highly active cleaner and is limited to the less complex applications.


Select MultiClean for simple stencil cleaning applications, or surface cleaning of water-soluble contamination.

For more information about MultiClean—See Product Spec PS-42

Heavy Duty Wipes

Featuring Axarel® 2200 Solvent

This is the strongest general purpose hydrocarbon cleaner, and it easily wipes away hardened solder pastes, many epoxies and some inks. A highly active solvent, use these Heavy Duty Wipes for the more demanding SMT and BGA stencils.

This cleaner is relatively slow drying, which makes it better for cleaning misprinted boards. Slight musty aroma. No rinsing. Biodegradable.

Select the Heavy Duty Wipes when cleaning a wide variety of contamination and when the speed of drying is not crucial.

For more information about Axarel 2200—See Product Spec PS-55

ExPoxy™ Wipes

When you put it on it’s an epoxy, but once you hit it with this cleaner it’s an “ExPoxy.” This wipe is your best choice for removing uncured chip board from mis-printed boards, as well as tidying up spills and drips on machinery. Based on a proprietary and highly activated hydrocarbon chemistry, ExPoxy gives technicians the widest possible process “window” for working with semi-cured chip-bonders. This powerful cleaner is also a great choice for solder pastes and many inks.


ScreenClean™ Wipes

A special hydrocarbon blend prepared for the hybrid circuit industry which often screens thick-film pastes. A powerful ink remover, specifically targeted to UV-curable inks. Modest aroma, dries slowly.


Plastic, Metal and Glass Cleaner Wipes

The strongest general-purpose surface cleaner ever offered by Micro Care. Formulated for cleaning benchtops, cabinets, housings, keyboards, keypads, switches and relays, test equipment, conveyors, hand tools and all the other equipment found in the factory environment. It easily wipes away light grime, oils, fingerprints, pencil marks, pen inks and even coffee stains. This cleaner is completely safe on all metals, paints, ceramics, glass, benchtops and plastics.

This cleaner contains no detergents. Those sticky, soapy residues never evaporate, and when they get behind keyboards they attract dirt and cause more problems than they solve.


Specifications:

All Micro Care presaturated tubs contain 100 wipes, 8 by 5 inches, loaded with about one pound (454 grams) of solvent. Priced per-tub, packaged twelve (12) tubs per case.

The vacuum-packed wipe refills are packaged 12 bags/box.

All presaturated wipes and the presaturated refills have a one year shelf life.

For more information — Product Spec PS-77

Specifications:

All Micro Care presaturated tubs contain 100 wipes, 8 by 5 inches, loaded with about one pound (454 grams) of solvent. Priced per-tub, packaged twelve (12) tubs per case.

The vacuum-packed wipe refills are packaged 12 bags/box.

All presaturated wipes and the presaturated refills have a one year shelf life.

For more information — Product Spec PS-77

For more information call (860) 827-0626 • In North America, dial 1-800-638-0125

AUTHORISED DISTRIBUTOR
HTTP://KRAYDEN.COM 1-800-448-0406

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Complete UniBar Starter Kits
All kits include consists of two UniBar aluminum hubs, two extra plastic take-up cores, two starter rolls and three extra locking springs:
For MPM SPM printers.
Max roll size 17.5 in./44 cm. MCC-UM2
For DEK 265 printers.
Max roll size 17.5 in./44 cm. MCC-UD2
For Quad & SMTech printers.
Max roll size 17.5 in./44 cm. MCC-UQ2
UniBar Quick Change Kit
All kits include one hub, one spare plastic core, one extra locking spring. Maximum roll size varies.
For MPM SPM printers.
Max roll size 17.5 in./44 cm. MCC-UM1
For DEK 265 printers.
Max roll size 17.5 in./44 cm. MCC-U1D
For Quad & SMTech printers.
Max roll size 17.5 in./35 cm. MCC-UQ1
UniRolls™ for the UniBar System
All UniBar rolls contain 36 feet/12m of paper.
UniRoll, 18 cm/7.25 in. wide MCC-U075
UniRoll, 22 cm/8.75 in. wide MCC-U087
UniRoll, 28 cm/11.0 in. wide MCC-U110
UniRoll, 35 cm/14.0 in. wide MCC-U140
UniRoll, 44 cm/17.5 in. wide MCC-U175
UniRoll, 58 cm/22.75 in. wide, fits only MPM UP3000 systems. MCC-U227
Sold by the roll. All UniRoll rolls and UniRolls are packaged ten rolls per case. Each roll individually wrapped. Unlimited shelf life. Guaranteed to fit!
Micro Care manufactures a wide variety of custom rolls. If you have a different machine or an unusual requirement, call us about our custom services!

The folks who make stencil printers design their rolls for their convenience, not yours, so there are hundreds of different sizes and shapes. Replace them all with the UniBar™ system for better wiping at lower costs.

STENCIL ROLLS
For more information on all Micro Care stencil cleaning rolls, see Product Spec PS-64

<table>
<thead>
<tr>
<th>Part #</th>
<th>Stencil Printer System</th>
<th>Core Length Inch/mm</th>
<th>Core Inner Diameter Inch/mm</th>
<th>Core Roll Outer Diameter Inch/mm</th>
<th>Roll Width Inch/mm</th>
<th>Roll Length Feet/Meter</th>
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<tr>
<td>104E</td>
<td>DEK</td>
<td>21.25/540</td>
<td>0.787/20</td>
<td>2.5/60</td>
<td>21.25/540</td>
<td>36/11</td>
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<td>105C</td>
<td>DEK</td>
<td>20.87/530</td>
<td>0.79/20</td>
<td>2.25/50</td>
<td>20.37/510</td>
<td>30/9.1</td>
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<tr>
<td>105E</td>
<td>DEK</td>
<td>20.87/530</td>
<td>0.79/20</td>
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<td>20.37/510</td>
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<td>105X</td>
<td>DEK</td>
<td>20.87/530</td>
<td>0.79/20</td>
<td>2.25/50</td>
<td>20.37/510</td>
<td>50/15.2</td>
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<tr>
<td>106E</td>
<td>DEK</td>
<td>17.91/450</td>
<td>0.29/70</td>
<td>2.36/60</td>
<td>17.41/440</td>
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<td>DEK</td>
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<td>0.787/20</td>
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<td>15.75/450</td>
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<td>J174E</td>
<td>Ekra</td>
<td>19.68/500</td>
<td>0.51/13</td>
<td>1.77/40</td>
<td>19.68/500</td>
<td>20/6.1</td>
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<td>J177E</td>
<td>Ekra</td>
<td>16.506/420</td>
<td>0.472/12</td>
<td>1.965/50</td>
<td>16.506/420</td>
<td>12/3.7</td>
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<tr>
<td>J178E</td>
<td>Ekra</td>
<td>17.685/450</td>
<td>0.472/12</td>
<td>1.965/50</td>
<td>17.685/450</td>
<td>12/3.7</td>
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<tr>
<td>J14BE</td>
<td>Fuji</td>
<td>19.69/500</td>
<td>1/25</td>
<td>2.36/60</td>
<td>19.69/500</td>
<td>30/9.1</td>
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<td>J189E</td>
<td>Fuji</td>
<td>15.748/400</td>
<td>1/25</td>
<td>2.36/60</td>
<td>15.748/400</td>
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<td>101E</td>
<td>MPM</td>
<td>18/450</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>17.5/440</td>
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<td>101X</td>
<td>MPM</td>
<td>18/450</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>17.5/440</td>
<td>50/15.2</td>
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<td>33/10.1</td>
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<td>103E</td>
<td>MPM</td>
<td>25.25/640</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>24.75/620</td>
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<td>J122E</td>
<td>Fuji</td>
<td>9/220</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>8/200</td>
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<td>J130E</td>
<td>Fuji</td>
<td>24/610</td>
<td>0.75/19</td>
<td>2.75/70</td>
<td>24/610</td>
<td>39/11.9</td>
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<td>J138E</td>
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<td>0.75/19</td>
<td>2.5/60</td>
<td>9/220</td>
<td>39/11.9</td>
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<td>J206E</td>
<td>MPM</td>
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<td>1/53</td>
<td>2.5/60</td>
<td>20.276/510</td>
<td>39/11.9</td>
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<td>J109E</td>
<td>Quad</td>
<td>16.15/410</td>
<td>1/53</td>
<td>2.65/60</td>
<td>16.15/410</td>
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<td>J193E</td>
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<td>2.65/60</td>
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<td>J206E</td>
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<td>1/53</td>
<td>2.5/60</td>
<td>20.273/510</td>
<td>39/11.9/</td>
</tr>
</tbody>
</table>

The UniBar System
The UniBar™ System is a drop-in upgrade to the stencil wiping feature found on many modern stencil printers. It boosts throughput by wiping more effectively. Each UniBar design varies to fit each type of machine, but the UniRoll™ wiping rolls remain the same. This means the paper rolls are independent of the type of printer. Wiping is less frequent, throughput increases, the paper rolls last longer, and there is less downtime. The fact that the rolls are less expensive is another plus.

In side-by-side comparisons on a DEK 265 stencil printer, the UniBar System extended roll life 140%, bolstered throughput 37%, reduced wipe frequency by 66%, cut roll costs 53%, minimized paper waste and eliminated expensive duplicate inventories of rolls. Each UniBar kit varies depending upon the system on which it is to be installed, but in general each consists of everything needed for your printer system. No tools are required for installation or for removal, and the UniBar is as easy to use as a standard roll wipe.

For more information — Product Spec PS-80

Complete UniBar™ Stencil Wiping Systems
Each UniBar Starter Kit consists of two UniBar hubs, two extra plastic take-up cores, two starter rolls and three extra locking springs:
- MPM SPM Systems: Max roll size 17.5 in./44 cm. Starter rolls: 14 inches.
- Other MPM Systems: The UP2000, UP3000, AP215, AP235, AP24, AP265 and AP266 systems from MPM do not require a UniBar hub. Just buy the UniBar rolls and start saving! Only the MCC-U227, -U175 and -U140 are recommended on these printing systems.
- DEK 265 Series. Max roll size 17.5 in./44 cm. Starter rolls:17 inches.
- Quad and SMTech. Max roll size 14 in./35 cm. Starter rolls:14 inches.

UniRolls™
Any of these rolls can be used on any of the most popular printers! All rolls are 12 meters/36 feet long and are identified by a unique yellow plastic core. For spare take-up cores, call Micro Care.
FLAT WIPES AND SWABS

For more information – See Brochure BR-89

Flat Wipes

<table>
<thead>
<tr>
<th>Micro Care Part #</th>
<th>Wipe Size</th>
<th>Material</th>
<th>Texture</th>
<th>Particulate Absorbency (0.5µ/m²)</th>
<th>Absorbency (mL/m²)</th>
<th>Packed in Clean Room</th>
<th>ESD Pack’d</th>
<th>Clean Room Pack’d</th>
<th>Sheets BAGS</th>
<th>Case</th>
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<tr>
<td>W12</td>
<td>12x16 in 30x40 cm</td>
<td>Polyester Cellulose blend</td>
<td>Waffled</td>
<td>15.4</td>
<td>250</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/5</td>
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<tr>
<td>W11</td>
<td>8.5 x 11 in 21 x 28 cm</td>
<td>Polyester Cellulose blend</td>
<td>Smooth</td>
<td>18</td>
<td>280</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>100/6</td>
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<td>W66</td>
<td>6x6 in 15x15 cm</td>
<td>Polyester Cellulose blend</td>
<td>Smooth</td>
<td>15.4</td>
<td>250</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/25</td>
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<td>W99</td>
<td>9x9 in 23x23 cm</td>
<td>Polyester Cellulose blend</td>
<td>Smooth</td>
<td>15.4</td>
<td>250</td>
<td>Yes</td>
<td>Yes</td>
<td>Class 100</td>
<td>300/12</td>
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<td>W99CP</td>
<td>9x9 in 23x23 cm</td>
<td>Polyester</td>
<td>Smooth, soft</td>
<td>0.2</td>
<td>332</td>
<td>Yes</td>
<td>Yes</td>
<td>Class 100</td>
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<td>Polyester</td>
<td>Smooth, Soft</td>
<td>2.4</td>
<td>319</td>
<td>Yes</td>
<td>No</td>
<td>Class 10</td>
<td>150/8</td>
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<td>Polyester</td>
<td>Smooth, Thick</td>
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<td>321</td>
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<td>Polyester</td>
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<td>478</td>
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<td>Polyester</td>
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<td>945</td>
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<td>W991J</td>
<td>9x9 in 23x23 cm</td>
<td>Cotton</td>
<td>Linen-like</td>
<td>129.5</td>
<td>219</td>
<td>Yes</td>
<td>No</td>
<td>Class 1000</td>
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Swabs

<table>
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<tr>
<th>Micro Care Part #</th>
<th>Swab Material</th>
<th>Head Size (W x L) (in.) (mm)</th>
<th>Handle Size (inches) (mm)</th>
<th>Bonding Method</th>
<th>Clean- Room Packaging*</th>
<th>Quantity- Bag/ Case</th>
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<td>CLEANROOM SWABS</td>
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<tr>
<td>WS301</td>
<td>Prelaundered Polyester</td>
<td>1/4 x 3/4 in 6 in 14 cm</td>
<td>Heat &amp; Pressure</td>
<td>Yes</td>
<td>50/10</td>
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<td>WS302</td>
<td>Prelaundered Polyester</td>
<td>1/8 x 1/2 in 3 in 7 cm</td>
<td>Heat &amp; Pressure</td>
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<td>WS303</td>
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<td>Heat &amp; Pressure</td>
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<td>WS501</td>
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<td>Glue</td>
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<td>WS201</td>
<td>Non-reticulated Foam</td>
<td>5/8 x 1 in 13 cm 5.25 in</td>
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<td>WS202</td>
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<td>Non-reticulated Foam</td>
<td>1/4 x 3/4 in 4.5 in 11 cm</td>
<td>Epoxy</td>
<td>No</td>
<td>50/10</td>
<td></td>
</tr>
<tr>
<td>WS205</td>
<td>Foam &amp; Cotton 3/16 x 1/2 in 3 in 7 cm</td>
<td>Heat w/ Hot Melt</td>
<td>Yes</td>
<td>50/10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WS206</td>
<td>Foam &amp; Cotton 3/8 x 1 in 10x25 cm 6 in 14 cm</td>
<td>Heat w/ Hot Melt</td>
<td>Yes</td>
<td>50/10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESD SWABS</td>
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</tr>
<tr>
<td>WS101</td>
<td>Reticulated Foam</td>
<td>3/4 x 7/8 in 6 in 14 cm</td>
<td>Heat &amp; Pressure</td>
<td>No</td>
<td>100/5</td>
<td></td>
</tr>
<tr>
<td>WS104</td>
<td>Reticulated Foam</td>
<td>1/8 x 3/4 in 3.25 in 11 cm</td>
<td>Heat &amp; Pressure</td>
<td>No</td>
<td>500/1</td>
<td></td>
</tr>
</tbody>
</table>

Micro Care’s flat wipes are rugged, non-woven paper that easily absorbs excess solvent, fluxes, solder paste, grease and oils. Almost impossible to tear. Never leaves lint, even on through-hole boards. ESD-safe when wet.