PRECISION BENCHTOP CLEANING PRODUCTS
From the World's Cleaning Experts

Solvents & Cleaners
Money-Saving Dispensing Tools
Stencil Cleaning Products
Maintenance Cleaners
High-Performance Lubricants
Cleaners for Tool Kits

New!
In today’s world, precision cleaning is more important than ever. If quality, productivity and performance are important in your business, then Micro Care should be your benchtop cleaning expert.

As you go from through-hole technology to surface mount designs to BGA and beyond, if you are cleaning optical components, medical assemblies, or even precision metal or ceramic designs, Micro Care has the answers you need. We offer the innovative solvents and money-saving tools to give you high-quality cleaning at the lowest possible cost. Micro Care also will improve your materials compatibility, reduce waste, enhance worker safety, protect the ozone layer, minimize smog-producing emissions and avoid the dangers of global warming.

In short, we are the world’s cleaning experts. Which pretty much tells you everything you need to know.
SOLVENT GUIDE

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 or call the cleaning specialists at Micro Care.

### Circuit Board Cleaning

<table>
<thead>
<tr>
<th>Optimal Choice</th>
<th>Other Great Choices</th>
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<td>Flux Remover C</td>
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<td>VeriClean™ Defluxer</td>
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<tr>
<td>Great cleaner. Low aroma. Plastic-safe. Fast drying. 91% VOC exempt. Great environmentally</td>
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<td>Heavy Duty Degreaser C</td>
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<td>ExPoxy™ Remover</td>
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<tr>
<td>Medium-strength. Great cleaning. Fabulous on uncured epoxies. Great on stencils and mis-printed PCBs</td>
<td>Reflow™ Oven Cleaner</td>
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<td>MCC-P01</td>
<td>Bioact® EC7M</td>
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<td>TidyPen® Label Remover</td>
<td>MCC-PRO</td>
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<td>ScreenClean™ Ink Remover</td>
<td>MCC-CDI</td>
</tr>
<tr>
<td>Powerful, targeted cleaner. Great on UV-curbables. Also good on uncured epoxies. Safe on screen emulsions</td>
<td>BGA Stencil Cleaner</td>
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</table>

### Equipment Maintenance

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<tr>
<th>Optimal Choice</th>
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<tr>
<td>Plastic &amp; Glass Cleaner</td>
<td>MCC-PMG</td>
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<tr>
<td>Very good cleaning. Great toxicity ratings. No residues, no detergents, no streaks</td>
<td>StatMat™ ESD Cleaner</td>
</tr>
<tr>
<td>Reflow Oven Cleaner</td>
<td>MCC-ROC</td>
</tr>
<tr>
<td>Excellent cleaner. Great on wave solder systems, pick-and-place systems. No aroma. Nonflammable</td>
<td>QuickShot™ Oven Cleaner</td>
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<tr>
<td>BGA Stencil Cleaner</td>
<td>MCC-BGA</td>
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<tr>
<td>Contact Cleaner C</td>
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<td>StatMat™ ESD Cleaner</td>
<td>MCC-MAT</td>
</tr>
<tr>
<td>Nonflammable. Renews ESD surfaces to protect components.</td>
<td></td>
</tr>
</tbody>
</table>

### Bulk Cleaning Systems

<table>
<thead>
<tr>
<th>Optimal Choice</th>
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</thead>
<tbody>
<tr>
<td>Vertrel® CMS</td>
<td>MCC-CMS, MCC-CCA</td>
</tr>
<tr>
<td>Medium-strength HFCs. Great cleaning, fast drying; great on inorganics.</td>
<td>Vertrel® SMT</td>
</tr>
<tr>
<td>BGA Stencil Cleaner</td>
<td>MCC-BGA</td>
</tr>
<tr>
<td>Medium drying; water-based, more versatile than Oven Cleaner. Nonflammable</td>
<td>RossTech™ 106FE</td>
</tr>
</tbody>
</table>

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PACKAGING NOTES: Each solvent is available in: (1) aerosol sprays (2) refillable pump sprays (3) presaturated wipes (4) bulk packages. Not all products available in all countries. Contact your distributor or Micro Care for guidance.

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.
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-dissipative 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 packaging 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.

Contact Micro Care for more details.

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 also can 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.

• Great defluxer and light degreaser
• Great toxicity ratings
• Almost no aroma
• Brisk drying
• Melts away silicone-based conformal coatings
• Highest purity

For more information — Product Spec PS-76

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

Elmatik AS, Türi 9, 11314 Tallinn Estonia tel. +372 650 3875 tel. +372 650 3876 fax +372 655 8019 e-mail: elmatik@elmatik.ee
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

Other Choices

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

Elmatik AS, Türi 9, 11314 Tallinn Estonia tel. +372 650 3875 tel. +372 650 3876 fax +372 655 8019 e-mail: elmatik@elmatik.ee
**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

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**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

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**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 nonregulated, non-hazardous for shipping purposes, which means technicians can safely and legally carry them on aircraft.

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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 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 contains no detergents. Those sticky, soapy residues never disappear, 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, benchtops and plastics. It leaves no residues and is noncorrosive. No rinsing required. Fast drying when wiped. Nonflammable. Slight ammonia aroma.

- 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 benchtop 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.

The cleaner is safe on all metals, plastics and elastomers. Unlike competing products, this cleaner has a neutral pH which protects the mats, plus it leaves no residues and is noncorrosive.


- Water-based, nonflammable
- Refillable pump sprayer
- 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
Powerful Degreasers

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

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Heavy Duty Degreaser C

- 3 oz./85 g TravelSAFE™ pump MCC-HDSC
- 10.5 oz./300 g Aerosol MCC-HDC
- 10 lbs./4.54 kg Minipail MCC-HDCG
- 50 lbs./22.68 kg Pail MCC-HDPC
- 500 lbs./226.80 kg Drum MCC-HCDC

ExPoxy™ Remover

- 1.87 lbs./0.84 kg Wipes MCC-EPXW
- 6 lbs./2.72 kg Minicube MCC-EPXG
- 30 lbs./13.61 kg Cubitainer MCC-EPXP
- 392 lbs./177.81 kg Drum MCC-EPXD

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

Heavy Duty Flux Remover III

- 12 oz./340 g Aerosol MCC-HD3
- 10 lbs./4.54 kg Minipail MCC-HD3G
- 50 lbs./22.68 kg Pail MCC-HD3P
- 500 lbs./226.80 kg Drum MCC-HD3D

Ionox® BC

- 8 lbs./3.63 kg Minicube MCC-KBCG
- 30 lbs./13.60 kg Cubitainer MCC-KBCP
- 480 lbs./217.70 kg Drum MCC-KBCD

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The new DuPont lubricants are clever, taking proven lubricating technology and making it better with fluoropolymer additives. These lubes outperform 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

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 salt, chlorine and corrosives. Has a very broad operating temperature (-40°F to +400°F)

For more information — Product Spec PS-60

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-76

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

Precision Contact Cleaner I

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 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-92

White Lithium Grease with Teflon®, 10 oz.

For more information — Product Spec PS-92

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.
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*

**Micro•Blast™ “Canned Air”**
*For more information — Product Spec PS-50*

**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*

**IsoClean™ Video- and Tape-Head Cleaner**
*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

These are the “X” Series Cleaners, only from DuPont. (See also: Flux Remover C, Page 6; Heavy Duty Degreaser C, Page 10; and Contact Cleaner C, Page 11)

**Vertrel® XF Solvent**

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

**Vertrel® SMT Defluxer**
Nonflammable, ozone-safe solvent for vapor defluxing surface mount electronics. Very good on R and RMA fluxes.

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

**Vertrel® SMT Defluxer**
Nonflammable, ozone-safe solvent for vapor defluxing surface mount electronics. Very good on R and RMA fluxes.

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
**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.


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

*For more information — Product Spec PS-79*

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**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 details on the specific solvents, see the MSDS sheets and individual product specifications.
**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 14 in./35 cm. MCC-UQ2

**UniBar Quick Change Kit**
All kits include one hub, one extra 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-UD1
- **For Quad & SMTech printers.**
  - Max roll size 14 in./35 cm. MCC-UQ1

**UniRolls™ for the UniBar System**
All UniBar rolls contain 36 feet/12m of paper. Sold by the roll. All UniRolls 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 rolls. If you have a different machine or an unusual requirement, call us about our custom rolls.

▲ 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>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<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>
<td>2.25/50</td>
<td>20.37/510</td>
<td>30/9.1</td>
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<tr>
<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>30/9.1</td>
</tr>
<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>
<td>36/11</td>
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<tr>
<td>J119E</td>
<td>DEK</td>
<td>20.87/530</td>
<td>0.787/20</td>
<td>2.25/50</td>
<td>15.75/400</td>
<td>30/9.1</td>
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<tr>
<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>
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<tr>
<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>J148EA</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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<tr>
<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>
<td>30/9.1</td>
</tr>
<tr>
<td>101TEA</td>
<td>MPM</td>
<td>18/450</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>17.5/440</td>
<td>39/11.9</td>
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<tr>
<td>101TX</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>102E</td>
<td>MPM</td>
<td>18/450</td>
<td>1/25</td>
<td>2.5/60</td>
<td>17.5/440</td>
<td>33/10.1</td>
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<tr>
<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>
<td>39/11.9</td>
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<tr>
<td>J122E</td>
<td>MPM</td>
<td>9/220</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>8/200</td>
<td>39/11.9</td>
</tr>
<tr>
<td>J130E</td>
<td>MPM</td>
<td>24/610</td>
<td>0.75/19</td>
<td>2.75/70</td>
<td>24/610</td>
<td>39/11.9</td>
</tr>
<tr>
<td>J138E</td>
<td>MPM</td>
<td>18/450</td>
<td>0.75/19</td>
<td>2.5/60</td>
<td>9/220</td>
<td>39/11.9</td>
</tr>
<tr>
<td>J206E</td>
<td>MPM</td>
<td>20.67/520</td>
<td>1.5/38</td>
<td>2.5/60</td>
<td>20.27/510</td>
<td>39/11.9</td>
</tr>
<tr>
<td>108E</td>
<td>Panasonic</td>
<td>14.18/360</td>
<td>1.5/38</td>
<td>3/70</td>
<td>14.18/360</td>
<td>39/11.9</td>
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<tr>
<td>J109E</td>
<td>Quad</td>
<td>16.15/410</td>
<td>1.5/38</td>
<td>2.5/60</td>
<td>16.15/410</td>
<td>22/6.7</td>
</tr>
<tr>
<td>J139E</td>
<td>Quad</td>
<td>16.15/410</td>
<td>1.5/38</td>
<td>2.5/60</td>
<td>16.15/410</td>
<td>22/6.7</td>
</tr>
<tr>
<td>J206E</td>
<td>Quad</td>
<td>20.67/520</td>
<td>1.5/38</td>
<td>2.5/60</td>
<td>20.27/510</td>
<td>39/11.9/1</td>
</tr>
</tbody>
</table>

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**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 wiping 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

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**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, AP21S, AP23S, AP24, AP25S and AP26 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 (µg/m²)</th>
<th>Absorbency (mL/m²)</th>
<th>Packaged in Clean Room</th>
<th>Clean Room Pack’d</th>
<th>Clean Room Pack’d</th>
<th>Sheets Bags/Case</th>
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<tbody>
<tr>
<td><strong>NON-WOVEN TECHNOLOGIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>W12 12x16 in</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></td>
<td>50/5</td>
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<tr>
<td>W11 8.5 x 11 in</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></td>
<td>100/6</td>
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<tr>
<td>W66 6x6 in</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></td>
<td>50/25</td>
</tr>
<tr>
<td>W99 9x9 in</td>
<td>Polyester</td>
<td>Smooth</td>
<td>15.4</td>
<td>250</td>
<td>Yes</td>
<td>Yes</td>
<td>Class 100</td>
<td></td>
<td>300/12</td>
</tr>
<tr>
<td>W99CP 9x9 in</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>
<td></td>
<td>300/8</td>
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<tr>
<td>W88 8x8 in</td>
<td>Composite</td>
<td>Quilted, shiny</td>
<td>120</td>
<td>490</td>
<td>Yes</td>
<td>Yes</td>
<td>Class 100</td>
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<td>100/12</td>
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<tr>
<td>W99MA 6x6 in</td>
<td>Reticulated</td>
<td></td>
<td>200</td>
<td>730</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td>25/30</td>
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<td><strong>POLYESTER TECHNOLOGIES</strong></td>
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<tr>
<td>W99PP 9x9 in</td>
<td>Polyester</td>
<td>Smooth, thin, soft</td>
<td>2.4</td>
<td>319</td>
<td>Yes</td>
<td>No</td>
<td>Class 10</td>
<td></td>
<td>150/8</td>
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<tr>
<td>W99HD 9x9 in</td>
<td>Polyester</td>
<td>Smooth, thick</td>
<td>2.6</td>
<td>321</td>
<td>Yes</td>
<td>No</td>
<td>Class 10</td>
<td></td>
<td>150/5</td>
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<tr>
<td>W98SE 9x9 in</td>
<td>Polyester</td>
<td>Smooth, thick</td>
<td>2.4</td>
<td>478</td>
<td>Yes</td>
<td>No</td>
<td>Class 10</td>
<td></td>
<td>150/5</td>
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<tr>
<td>W99PQS 9x9 in</td>
<td>Polyester</td>
<td>Quilted</td>
<td>14.6</td>
<td>945</td>
<td>Yes</td>
<td>No</td>
<td>Class 10</td>
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<td>100/5</td>
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<tr>
<td><strong>COTTON</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>W99TJ 9x9 in</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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<td>300/12</td>
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### Swabs

<table>
<thead>
<tr>
<th>Micro Care Part #</th>
<th>Swab Material</th>
<th>Head Size (W x L) (in.)</th>
<th>Handle Size (inches)</th>
<th>Bonding Method</th>
<th>Clean Room Packaging</th>
<th>Quantity/Bag/Case</th>
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<tbody>
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<td><strong>CLEANROOM SWABS</strong></td>
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<tr>
<td>WS301 Prelaundered Polyester 1/4 x 3/4 in</td>
<td>6 in</td>
<td>Heat &amp; Pressure</td>
<td>Yes</td>
<td>50/10</td>
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<tr>
<td>WS302 Prelaundered Polyester 1/8 x 1/2 in</td>
<td>3 in</td>
<td>Heat &amp; Pressure</td>
<td>Yes</td>
<td>50/10</td>
<td></td>
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<tr>
<td>WS303 Prelaundered Polyester 1/16 x 1/2 in</td>
<td>3 in</td>
<td>Heat &amp; Pressure</td>
<td>Yes</td>
<td>50/10</td>
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<td><strong>ECONOMY SWABS</strong></td>
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<tr>
<td>WS501 Cotton 1/4 x 5/8 in</td>
<td>6 in</td>
<td>Glue</td>
<td>No</td>
<td>1000/10</td>
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<td>WS502 Cotton 3/16 x 1/2 in</td>
<td>3 in</td>
<td>Glue</td>
<td>No</td>
<td>1000/10</td>
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<td><strong>SYNTHETIC SWABS</strong></td>
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<td>WS201 Non-reticulated Foam 5/8 x 1 in</td>
<td>5.25 in</td>
<td>Heat w/ Hot Melt</td>
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<td>50/10</td>
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<td>WS202 Reticulated Foam 1/2 x 1 in</td>
<td>5 in</td>
<td>Heat w/ Hot Melt</td>
<td>No</td>
<td>50/10</td>
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<tr>
<td>WS203 Non-reticulated Foam 1/8 x 1/2 in</td>
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<td>Epoxy</td>
<td>No</td>
<td>50/10</td>
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<td>WS204 Non-reticulated Foam 1/4 x 3/4 in</td>
<td>4 in</td>
<td>Epoxy</td>
<td>No</td>
<td>50/10</td>
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<tr>
<td>WS205 Foam &amp; Cotton 3/16 x 1/2 in</td>
<td>3 in</td>
<td>Heat w/ Hot Melt</td>
<td>Yes</td>
<td>50/10</td>
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<tr>
<td>WS206 Foam &amp; Cotton 3/8 x 1 in</td>
<td>6 in</td>
<td>Heat w/ Hot Melt</td>
<td>Yes</td>
<td>50/10</td>
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<td><strong>ESD SWABS</strong></td>
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<tr>
<td>WS101 Reticulated Foam 3/4 x 7/8 in</td>
<td>6 in</td>
<td>Heat</td>
<td>No</td>
<td>100/5</td>
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<td>WS104 Reticulated Foam 1/8 x 3/4 in</td>
<td>3.25 in</td>
<td>Heat</td>
<td>No</td>
<td>500/5</td>
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<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.
We’re Giving Away Our Single Most Important Product – Absolutely Free!

The most important product we offer at Micro Care is our expertise. We’ve been to thousands of factories in dozens of countries. With every type of production arrangement you can imagine. We’ve helped them all, and now we’ve compiled that knowledge into the industry’s most useful web site.

The Micro Care web site is a potent example of how we lead the industry. Look for:

• Technical articles and case histories
• Product specifications for every cleaner and package
• MSDS sheets in up to eleven languages
• A proprietary “Solvent Selection Guide” which determines the best solvent for your application
• And, most usefully, a Cost Calculator which helps you determine your true benchtop cleaning costs.

The web site is easy to navigate, jargon-free and fun to use. Just like the rest of Micro Care, our web site works a little bit harder to get you the answers you need at a price you can afford.

www.microcare.com

The World’s Cleaning Experts

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New Britain, CT  06051  USA

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