EDITION: AMERICAS/ENGLISH



ELECTRONICS CLEANING CHEMISTRY

Driving environmentally responsible cleaning solutions and technologies worldwide

KYZEN pairs proven cleaning technology with hands-on expertise to solve problems others can't. Our solutions are engineered around your process — not the other way around — so you get results that keep you ahead. Bring us your most complex cleaning challenge, and we'll bring a solution built for it.

KYZEN
Where Science and Care Converge.

SOLVING YOUR MOST COMPLEX CLEANING CHALLENGES.

KYZEN.COM

WORLDWIDE ENVIRONMENTALLY RESPONSIBLE CLEANING TECHNOLOGIES

WHY CLEAN?

Why does cleaning matter?

Because the cost of contamination compounds. **A flux residue missed in production doesn't stay a residue—it becomes a field failure, a warranty claim, a customer who doesn't come back.** In high-reliability electronics, cleanliness isn't a final step. It's the difference between failure and success.





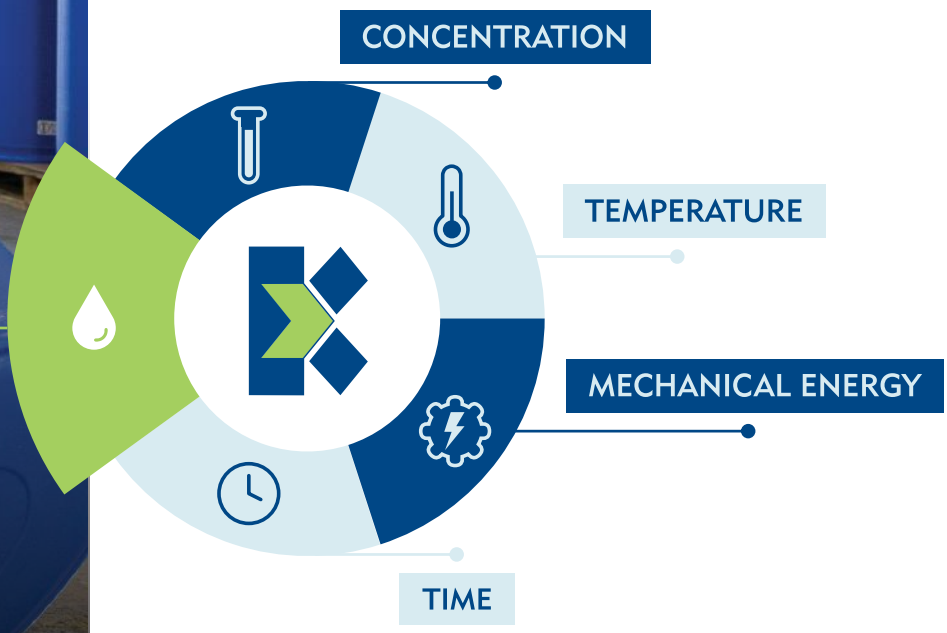


WHY KYZEN?

Chemistry that works. Support that shows up.

KYZEN's cleaning chemistries are engineered for reliability. **But reliability goes beyond the product:**

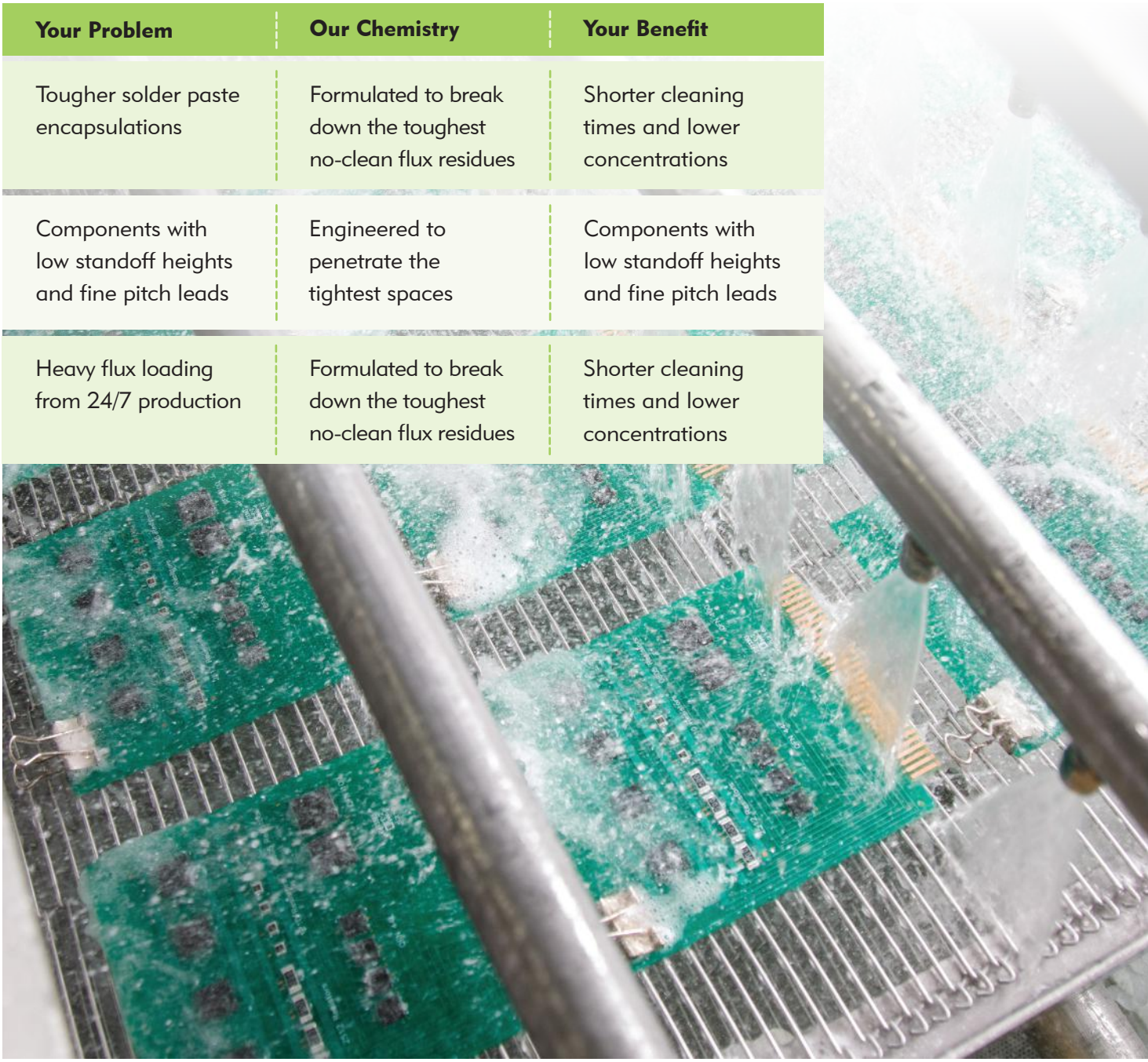
- Expert application engineers who understand your process
- On-site problem-solving when challenges arise
- Long-term partnership built on trust and results



The 5 Forces of Cleaning

YOUR PROCESS. OUR CHEMISTRY. CLEANER BOARDS.

Your Problem	Our Chemistry	Your Benefit
Tougher solder paste encapsulations	Formulated to break down the toughest no-clean flux residues	Shorter cleaning times and lower concentrations
Components with low standoff heights and fine pitch leads	Engineered to penetrate the tightest spaces	Components with low standoff heights and fine pitch leads
Heavy flux loading from 24/7 production	Formulated to break down the toughest no-clean flux residues	Shorter cleaning times and lower concentrations



PCB Cleaning is rarely simple. Solder paste characteristics, component geometry and reflow conditions all affect how flux residues behave. Our chemistry is formulated to solubilize residues across the widest process conditions. **Ensuring stable and consistent cleaning on day one and every day after.**

AQUANOX® A4777

High Performance Flux Cleaner | Spray-in-Air

Able to operate at lower temperatures and concentrations for the best total cost of ownership. Delivers superior cleaning on all flux types, exceptional rinse-ability, and long bath life.

AQUANOX® A4727

PCB & Advanced Packaging | Spray-in-Air

Award winning, GreenScreen Certified Gold performance on all flux types including no-clean. Non-hazardous, biodegradable, no CFC's or HAPs. Effective at low concentrations and on complex, dense assemblies.

AQUANOX® A4618

Lead-Free & No-Clean Flux Residues | Spray-in-Air

Safe for demanding multi-pass applications. Delivers exceptional, mirrored solder finishes on all flux types. Eco-friendly, low VOC and performs at low concentrations.

AQUANOX® A4382

Organic Acid Flux Cleaner | Spray-in-Air

Reaches areas DI water alone cannot reach to target water-soluble flux residues under dense, low standoff components. Superior component compatibility protects substrates and exposed metals.

AQUANOX® A4651US

Aqueous Immersion Cleaner | Ultrasonic

Designed specifically for ultrasonic immersion systems. Delivers brilliant solder joints across multiple flux types with no sump side additives.

IONOX® I3302

Semi-Aqueous Immersion Cleaner | Ultrasonic

Designed for cleaning the most challenging SMT solder paste and tack flux paste residues including Sn/Bi formulas. Environmentally responsible and can be used in immersion agitation, ultrasonic or centrifugal systems.

SOLVENT CLEANING

Waterless Flux Cleaning | Vapor Degreasing

Environmental restrictions, local water availability, and waste water management sometimes dictate the need for a waterless process. KYZEN has developed the most effective solvents for flux cleaning where water is not an option. Using either a co-solvent or duo-solvent process, the same excellent cleaning results can be achieved in vapor degreasing equipment.

CO-SOLVENT / DUOSOLVENT SYSTEM

SOLVENT A - CLEANING SOLVENT

- KYZEN DS3522
- KYZEN DS3535

SOLVENT B - RINSING AGENT

- KYZEN SLV901
- KYZEN SLV803

NOTE: The products featured here represent KYZEN's most trusted solutions for common PCB cleaning challenges—but every process is different. **Ask a KYZEN cleaning expert to help you find the right fit for yours.**

Award-winning GreenScreen Certified Gold

LEAD PRODUCTS FOR DEFLUXING



WHY PROCESS CONTROL?

THE SCIENCE OF CONTROL.

Traceability. Stability. Efficiency.

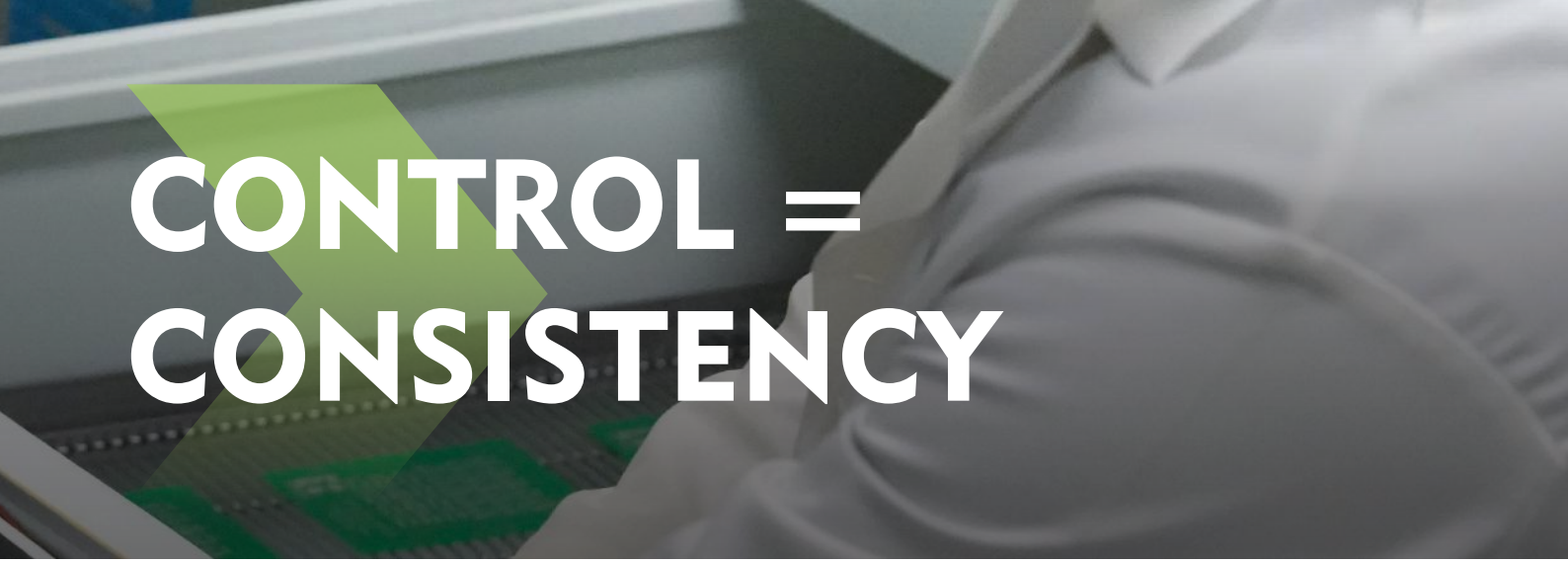
KYZEN PCS

The only complete concentration monitoring and control system trusted by the world's leading high reliability PCB manufacturers. Continuously monitors dynamic changes in wash bath concentration and automatically maintains process parameters.

- **Demonstrated 6 sigma performance**
- **30+ years in production environments**
- **400+ installations worldwide**



KYZEN PCS and ANALYST² use advanced sonic velocity or refractive index technology for precise, direct measurements independent of liquid color or conductivity. **With fast, stable readings to 0.1% resolution, they work with more than 60 cleaning solutions.**



CONTROL = CONSISTENCY

KYZEN ANALYST²

Automatically monitors and reports concentration in real time. Available in both sonic velocity and refractive index models. Easy to install and proven in the field with over 250+ installations.

KYZEN DEMISTER

Automatically recovers cleaning solution while reducing chemical consumption and emissions—better efficiency, better for the planet.

KYZEN CHEMTROLLER

Water-powered proportioning made simple: durable stainless steel construction, zero electricity or air required, compatible with the entire KYZEN chemistry line.

MANUAL KITS

Concentration monitoring built specifically for KYZEN chemistries, with expert support to help you choose the right kit for your needs.

Losing control of your process means losing control of your results — and that's absolutely not acceptable when quality and consistency are on the line.

KYZEN process control products keep your wash bath dialed in — automatically — **so your process runs consistently at peak performance every time.**

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Award-winning

MONITOR. MANAGE. CONTROL.



WHERE THE SCIENCE HAPPENS

YOUR MOST COMPLEX PROBLEMS.

Our Favorite Ones.

RISK-FREE TRIALS

KYZEN process engineers determine the best chemistry and parameters for your application, then validate results before any commitment to a new process or product — taking the guesswork, and the risk, out of making a change.



Our applications labs are fully equipped with in-line, batch, immersion, vapor degreasing, co-solvent, and duo-solvent cleaning systems available from multiple manufacturers to test your assemblies. Afterwards, we compare test results in our world-class analytical labs.



KYZEN LAB & FIELD SERVICES

CLEANING ANALYSIS

Ion Chromatography (IC), SEM, SIR, and R.O.S.E. testing — all available in the KYZEN lab, performed by experts in cleaning, not generalists. Get the data you need to protect quality and meet compliance requirements.

BATH PROFILES

Track your wash bath's full life cycle with single tests or 6-sample kits — so you can anticipate maintenance needs before they become problems. Less downtime, less waste, more predictability.

ON-SITE AUDITS

KYZEN engineers come to you and review your process end to end — chemistry, rinse water, nozzle pressure, exhaust balancing, and more — so you walk away with a clear picture of where performance can improve.

CONTRACT CLEANING

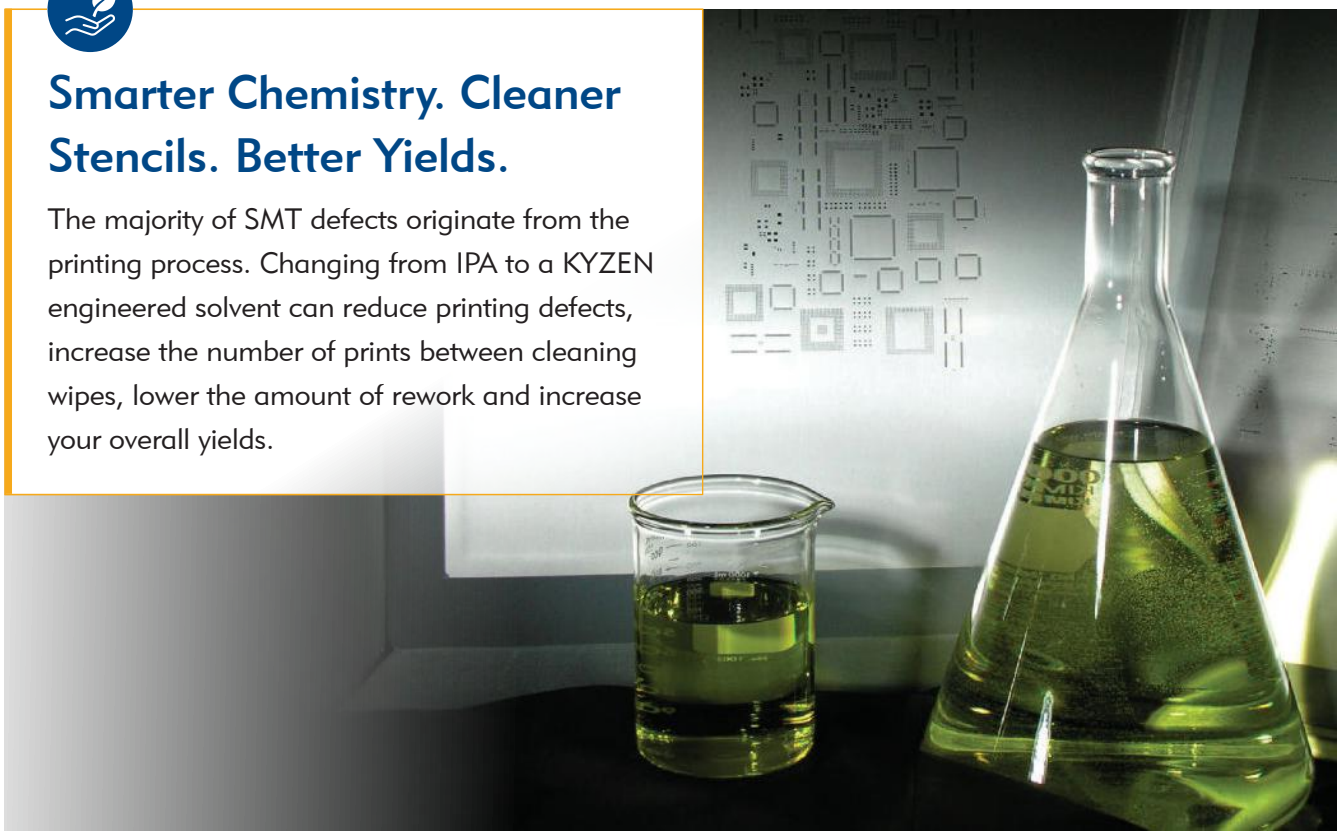
Expert cleaning services for production spikes, new launches, or gap coverage — with full access to KYZEN's application expertise and chemistry portfolio. A reliable extension of your team, when you need it.

KYZEN's Application and Analytical Labs exist for one reason — **to solve your hardest cleaning challenges before they become truly critical cleaning problems.**

Our engineers and chemists work alongside you, combining hands-on process expertise with advanced analytical capabilities to get it right.

Smarter Chemistry. Cleaner Stencils. Better Yields.

The majority of SMT defects originate from the printing process. Changing from IPA to a KYZEN engineered solvent can reduce printing defects, increase the number of prints between cleaning wipes, lower the amount of rework and increase your overall yields.



KYZEN® E5631J

Understencil Wipe | Aqueous & Ready-to-Use

Better than IPA. Quickly removes all types of raw solder paste from stencils whether you're cleaning online or offline. Shown to increase number of wipes per print and decrease defects versus IPA.

CYBERSOLV® C8882

Understencil Wipe, Misprints & Benchtop | Solvent

A fast-acting solvent that dissolves all flux types within solder paste, leaving no residue even on nano-coated stencils. Trusted and approved by leading printer manufacturers worldwide.

KYZEN® E5631

Understencil Wipe, Misprints & Benchtop | Solvent

A low-concentration, ambient-temperature cleaner that removes raw solder paste flux while remaining compatible with stencils, adhesives, frames, mesh, and equipment materials, non-hazardous, biodegradable, and compliant with RoHS & REACH.

KYZEN® E5611

Spray-in-Air & Ultrasonic | Aqueous

Removes all major solder pastes and uncured adhesives. Works at ambient temperature and low concentration, so no heat is needed. Plus, rinsing is optional—you'll get consistently residue-free results either way.

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Award-winning GreenScreen Certified Gold

CYBERSOLV® 141-K

Benchtop | PCB Cleaning | Solvent-Based

A safe, ready-to-use precision solvent that self-rinses and evaporates fast, with low surface tension to clean tight traces and under components—and it's a direct replacement for 141-X and 141-R.



KYZEN® E5325

Maintenance Cleaning | Aqueous

Removes tough fluxes and pastes from pallets, fingers, and oven tooling — with low odor and minimal exposure time to reduce downtime and increase output. Zero VOCs and compatible with aluminum, copper, and steel.



CYBERSOLV® C8508

Oven & Equipment Maintenance | Aqueous

Removes baked-on flux, lead-free residues, and outgassed buildup — extremely effective on solder paste activators and additives, and safe on aluminum, copper, and brass.



CYBERSOLV® C8502

Wave Solder & Maintenance | Aqueous

Removes rosin, no-clean, and water-soluble flux from fingers and ovens — non-flammable, virtually odorless, and easy to use. Full strength in immersion, spray-under-immersion, or ultrasonic.



Over 36

Awards for Product Innovation



44+

Technology Awards



19 Years

of Service Excellence recognition!



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Award-winning



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Where Science and Care Converge.

Because we want you to achieve the highest levels of performance, we connect care with leading science to continuously improve, problem solve and create the most effective cleaning solutions to suit your specific needs.

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