

TECHNOtalk

Vol. V SmartWipes

2003

SMARTWIPES® & WIPER PRODUCTS

JNJ INDUSTRIES



JNJ manufactures a complete line of application specific wiper products for all cleaning and polishing applications. We use only the highest quality materials available, chosen specifically to deliver optimum performance and value for each and every use. Whatever your cleaning or wiping needs, JNJ has the SmartWipe to do the job. There are SmartWipes for cleanrooms, cleaning optics, manually wiping SMT stencils, cleaning wire mesh screens, and for general purpose cleaning of individual parts or machinery. In keeping with our commitment to innovation, we continue to develop new materials and products that will help serve the needs of our customers today, and anticipate their needs for tomorrow.

SELECTAWIPES™

Our SelectaWipe rolls have 200 perforated wipes and were designed for cleaning stencils, screens, PC boards, squeegees, tools, and machinery. An economical all purpose wipe that can be used for every type of industrial cleaning application. SelectaWipes allow users to tear off a cleanroom grade wipe with the ease of a paper towel. These wipes are made from the same made Dupont Sontara®



Cleanmaster material as our 401 UnderStencil Wipes and our Standard 4000 Series SmartRoll UnderStencil Wiping Rolls. They are tough and absorbent, and resist tearing or shredding, even when wet. Available in 9" x 9" and 9" x 12" with an optional dispenser made from anodized aluminum that can be grounded for ESD sensitive areas. SelectaWipes eliminate the difficult task of trying to remove a single wipe from a prepackaged stack of wipes. Ideal for cleaning fine pitch and standard pitch stencils. Compare the cost per wipe of our SelectaWipes against the cost of flat wipes from other suppliers and you'll find that our SelectaWipes are not only more convenient to use, but they are also less expensive.

UNDERSTENCIL WIPING ROLLS



JNJ Industries is the recognized expert in understencil wiping rolls by meeting or exceeding the demanding requirements of the equipment manufacturer and by offering the widest range of OEM compatible rolls in the global market today. We produce both standard and custom rolls for OEMs such as Speedline/MPM, DEK, Panasonic, Fuji, EKRA, and Juki's family of printers. JNJ utilizes only the highest quality materials available for our SmartRoll® UnderStencil Wiping Rolls, chosen specifically to deliver optimum performance and value for each and every application. Because understencil wiping is so critical in the electronics industry, JNJ manufactures SmartRolls in three application engineered material specifications. Each SmartRoll is individually shrink wrapped in a protective static dissipative ESD safe film, with superior static control properties, allowing an unlimited shelf life. Whether your requirement is standard or custom, SmartRolls are the most cost effective stencil wiping choice!

SUPER SATURATED SMARTWIPES

Our SuperSaturated SmartWipes offer cleaning solutions where and when you need them. You will always have the right wipe, with the right chemistry at your fingertips. Our SuperSaturated SmartWipes feature a durable, solvent retentive material substrate that cleans effectively



without leaving excess solvent behind. Each wipe is presaturated with the proper amount of GlobalTech® CFC & HCFC Free solvent and is packaged in a recyclable, reusable canister. The strong, super absorbent wipes are 100% cleanroom grade polyester, low in lint, and resist tearing and shredding. SuperSaturated SmartWipes trap dirt, grease, solder paste, flux residue, epoxy, ink, and other contaminate particles. Every JNJ presaturated wipe is available in a vacuum sealed, space and money saving, waste reducing Foil Refill Packs (FRP).



Does JNJ Offer Samples To Help You Select The Right Wiper Product For Your Cleaning Needs?

JNJ has simplified your choices by giving all of our SmartWipe products application specific names. Whatever your requirements, JNJ has the right wiper product for your application. Every year we send thousands of samples to customers world wide. Call or e-mail us at sales@jnj-industries.com to help you qualify which JNJ product is right for your application.

Whatever your cleaning requirements, choose the smart solution, choose SmartWipes from JNJ!!!

Dry Wipe Quick Pick Selection Chart

P/N	WIPE/SIZE	MATERIAL/PACKAGING	DESCRIPTION	APPLICATION
0923	BLUE COMET 12" x 14"	Cellulose/Polyester 1,000/CS - Bulk	Absorbent, strong, resists tearing and shredding. Very low lint.	All-around cleaning wipe for manufacturing and electronics.
413A	EQUASTAT 9" X 9"	Continuous Filament Polyester 150/BG - 5 BG/CS	Static-dissipative, soft, durable, extremely low lint.	Electronics manufacturing where static (ESD) control is essential.
443	FOAMWIPES 6" X 9"	Reticulated Polyester-urethane 100/BG - 5 BG/CS	1/8" thick. Lint free , reusable, durable, prevents scratches, open cells trap dirt.	Cleanrooms. Excellent for wiping rough surfaces.
0327	ULTRASORB 13" X 13"-1/4 fold	100% Rayon 25/BG - 15 BG/CS	Super absorbent, can be laundered and reused. Replaces shop rags.	All industrial applications. Spill control, grease, oil, inks, adhesives.
0304	GOLDWIPE 9" X 9"	Wood Pulp and Polyester 300/BG - 12 BG/CS	Bulky, low lint. Traps dirt and prevents scratching.	Industrial cleaning wipe. Excellent for removing heavy soils.
1025	BLUE MAX 13" X 13"-1/4 fold	Rayon/Polyester 25/BG - 15 BG/CS	Very strong, durable, super absorbent. Replaces shop rags.	Heavy duty applications. Screens, adhesives, machinery.
0412A	OPTISMART 8" X 8"	Polyester 100/BG - 1 BG/CS	Reusable , soft, smooth, reusable optical lens cloth. Will not scratch/smear lens.	Glasses, cameras, microscopes, CDs, precision optics, mirrors.
616	POLYTECH 9" X 9"	100% Polyester 300/BG - 8 BG/CS	Strong, bulky, soft, tear and shredding resistant. Medium absorbency, low lint.	Tough jobs requiring soft wiping material. Good for most surfaces.
2001	PREMIUM 9" X 9"	100% Cotton 300/BG - 12 BG/CS	High absorbency, strong, tough, soft. Superior cleaning action.	Excellent for production areas, manufacturing, and laboratories.
9TW-S2	ROYAL 9.5" X 9.5"-1/4 fold	Continuous-Filament Cotton 150/BG - 30 BG/CS	Absorbs 13 times its weight in liquid. Strong wicking action, soft, lint free.	Spill control in cleanroom and static sensitive environments.
130	STRATUS 8" X 9"	Poly w/ Cellulose Barrier 100/BG - 12 BG/CS	Inner layer absorbs 6.5 times its weight in liquid, outer layer stays dry.	Excellent for use with acids, solvents and other such liquids.
810	ULTRACLEAN 9" X 9"	100% Polyester 75/BG - 10 BG/CS	Meets Federal Standard 209D. Laundered, dried in cleanroom environment.	Class 100 Cleanroom
031A	ULTRA UNLAUNDERED 9" X 9"	100% Polyester 425/BG - 2 BG/CS - Bulk	Economic alternative to Ultraclean. Soft, absorbent, strong.	Controlled manufacturing areas requiring low particle generation.
401	UNDERSTENCIL 9" X 9"	Cellulose/Polyester 300/BG - 12 BG/CS	Excellent absorption and strength. Strong, durable, low lint.	Excellent for cleaning screens and stencils. Will not tear or shred.
0529	WHITE TORNADO 12" x 14"	Cellulose/Polyester 1,000/CS - Bulk	Absorbent, strong, excellent dimensional stability. Premium grade wipe.	Excellent soft wipe for Laboratories, electronics, manufacturing.



SmartWipes...
more choices to help maximize performance

CLEANROOM CLASSIFICATION/COMPATIBILITY			
P/N	WIPE	CLEANROOM GRADE	CLEANROOM COMPATIBILITY
0923	BLUE COMET	CLASS 1,000	
413A	EQUASTAT	CLASS 100	CLASS 10+
443	FOAM WIPES	CLASS 100	
0304	GOLD WIPE		CLASS 100
616	POLYTECH	CLASS 100	CLASS 10
2001	PREMIUM	CLASS 1,000	CLASS 100
9TW-S2	ROYAL	CLASS 100	
130	STRATUS		CLASS 1,000
810	ULTRACLEAN	CLASS 100	CLASS 10
031A	ULTRA UNLAUNDERED	CLASS 1,000	
401	UNDERSTENCIL	CLASS 100	
0529	WHITE TORNADO	CLASS 1,000	



UnderStencil Wipe #401 - JNJ's 401 UnderStencil SmartWipes are designed especially for cleaning SMT stencils, stencil printing machines, squeegees, and misprinted boards. This wipe effectively absorbs solder paste, flux residue, inks and epoxies, with or without solvent. The 401 wipe will keep the underside of stencils clean from excess residue between prints to prevent contaminants from being transferred onto PC boards. Ideal for cleaning standard pitch, fine pitch, and ultra fine pitch stencil images, they resist tearing and shredding, and are very low in lint. When used with JNJ's SMT Stencil Cleaner solvent, it is the most effective stencil cleaning system available. 401 Wipes are Class 100 cleanroom grade.



OptiSmart Wipe #0412A - For precision optics and highly polished surfaces, JNJ's OptiSmart SmartWipes feature a weave of soft, microscopic polyester fibers, 1/200th the diameter of a human hair. OptiSmart wipes trap oil and dirt between the ultra fine fibers to safely clean finger smudges, dirt, oil, and all types of residue from delicate optical surfaces including camera lenses, microscope lenses, glasses, telescopes, and glass slides. These super soft wipes will not scratch or smudge, and can be used dry or with solvents.

Heavy Duty Wipes - JNJ's multipurpose SmartWipes are heavy duty quality wipes that withstand intense scrubbing, even on rough surfaces. Use these wipes to clean industrial spills or soils including: water, oils, solvents, grease, cutting fluids, metal chips, pastes, adhesives, etc.. Strong and durable, these wipes offer superior performance to shop rags, Kim Wipes, or paper towels, for every application from glass polishing to machinery cleaning. Low lint, highly absorbent and strong, JNJ's multipurpose wipes won't scratch sensitive surfaces including Lexan and Plexiglas. **Blue Max #1025** is made from an advanced blend of ultra absorbent rayon and super strong polyester. **UltraSorb #0327** is made from 100% rayon and can be laundered and reused.



Stratus Wipe #130 - Stratus Wipes pick up hazardous spills fast, without spread or contamination. JNJ's Stratus SmartWipe is a composite of super absorbent cellulose thermally bonded to two outer layers of tough abrasion resistant polypropylene. This combination of polypropylene and cellulose has a unique synergistic effect. The polypropylene has excellent wicking properties, yet hold very little liquid consequently, the outer layers remain fairly dry while the inner cellulose hold the bulk of the liquid. Use Stratus wipes for cleaning up sensitive spills including acids and solvents, or in proximity to hot or live electronic circuits.

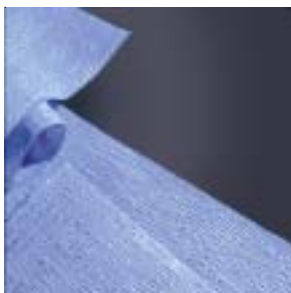


UltraClean #810 & UltraClean Unlaundered #031A - Manufactured from 100% continuous filament polyester fiber, with a knit construction and pattern. JNJ's UltraClean SmartWipes ensure superior cleaning performance with extremely low particle generation and soluble extractables. This wipe is soft and will not scratch; it becomes softer when wet, while maintaining high tensile strength. Unaffected by solvents, UltraClean wipes have very low electrostatic discharge. UltraClean wipes are excellent for cleaning glass and ceramic substrates, CD discs, instrumentation, tools, and the bottom of screens. UltraClean Unlaundered is one of our most popular wipes and is widely used in screen printing applications where lint free cleaning is critical.



Foam Wipe #443 - Our Foam SmartWipes are white in color, and clean room packaged. They are absorbent to solvents and solutions, as well as many forms of contaminants. Foam wipes are the only true non-abrasive, lint free wipes. The exceptionally low particle generation makes them ideal for clean room applications. The open cell structure of the wipe not only traps dirt and soils including thick film inks, grease, pastes, and epoxies, but the high "sponge-like properties" make them an excellent solvent applicator. Foam wipe #443 is made from fully reticulated (open cell) polyester-urethane. It resists hydrocarbons, oils, solvents and grease. **Foam Wipe #442** is a denser wipe made from a unique open cell, hydrophilic polyurethane foam. This grade is super absorbent, holding up to 15 times its weight in liquids; is strong and durable, resisting tears after repeated uses; highly chemical resistant, usable with most acids, alkali, and organic chemicals. This foam has the ability to release stored liquids at a steady rate when pressure is applied; this is a benefit when applying cleaning agents in a controlled manner.

Crepe Wipe - Crepe Wipes are for laboratory clean up, light manufacturing and parts cleaning requiring a rugged, highly absorbent wipe. JNJ's crepe wipes feature a hydro-entangled blend of cellulose and polyester fibers for exceptional dimensional stability. Polyester fibers deliver strength and cellulose provides super wicking action and absorbency (absorbs 5 times its own weight while remaining strong). This is a non-woven wipe, free of chemical binders. Available in two colors, **Blue Comet #0923C** and **White Tornado #0529C**. The crepe SmartWipes from JNJ resist tearing and shredding, and are very low in lint. The textured surface provides superior cleaning performance. Wipes also available with a plain flat surface.



Royal #9TW-S2 - Royal Wipes are super absorbent, the JNJ's Royal SmartWipe absorbs 13 times its weight in liquid. It's strong wicking action makes it the perfect wipe for spill control in clean rooms and laboratories. Composed of 100% cellulose that is especially clean and absorbent. The Royal wipes are low in particle generation and soluble extractables. Each wipe is inspected, hermetically packaged and can be used for a wide variety of cleaning applications. As a note, the part number is in honor of Baseball Hall of Fame member, Mr. Ted Williams, who wore number "9" for the Boston Red Sox.



*Technical Data Sheets are available for all JNJ SmartWipes DryWipes.

...cleaning solutions - where and when you need them

SMT PRODUCTION SUPPLIES KIT

Our SMT Production Supply Kits were developed to accommodate small and mid-size manufacturing facilities that don't require production supplies by the case. Each SMT Production Supply Kit is packaged with understencil wiping rolls, presaturated wipes and dry wipe rolls to accommodate the production needs of the average stencil printer for one week. They are available in various packaging styles - there are kits designed for use with MPM automatic printers, DEK automatic printers and for printers that do not have automatic stencil wiper assemblies. The SMT Production Supply Kits and/or the individual items in the kits can be ordered through your local distributor. The kits for MPM or DEK automatic printers come with; 4 - SmartRoll® Under-Stencil Wiping Rolls, 2 - 9" x 9" SelectaWipe Rolls, that are as easy to use as paper towels but are made from Class 100 cleanroom material, 1 canister of SMT Stencil Cleaner and 1 canister of IPA/DI with matching Foil Refill Pack. Kits without understencil wiping rolls are also available.



In addition to our SmartWipes, JNJ manufactures high quality electronic screen and stencil printing accessories and cleaning products. We are well-known for our SMT production supplies for all OEM stencil printing machines, ultrasonic cleaning machines, custom and production machining services and tooling plate assemblies. Our printer components line features both JNJ designed and OEM specific squeegee blades and holders. We are the recognized experts in understencil wiping rolls - our OEM and custom SmartRolls® fit every printer worldwide. JNJ's GlobalTech® division provides

advanced formulations of environmentally responsible chemicals and solvents - GlobalTech products are formulated for the rigorous cleaning requirements of any workplace. Our ultrasonic stencil cleaning machines range from benchtop units to automated systems, and are compatible with our AquaSonic Aqueous Chemistries. JNJ's line of Universal Tooling Plate Assemblies provide 5-minute set up and changeover for Speedline/MPM stencil printers. Our commitment is not only to provide the highest quality products possible, but to make them available to you for fast delivery through a network of local, national and international distributors.

JNJ INDUSTRIES

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**SMT PRODUCTION SUPPLIES & EQUIPMENT
CUSTOM & PRODUCTION MACHINING**