

Technical Data Sheet



SmartWipes® 401 UnderStencil

Product Description

UnderStencil is a hydroentangled blend of 54% cellulose / 46% polyester wipe that can be used in a variety of manufacturing applications and cleaning processes. A multipurpose, micro-level cleaning material, made from Sontara®, that is specifically engineered for cleanroom applications.

Hydroentanglement: also known as spunlacing, entangles the fibers to give strength to the web. It uses fine, high-pressure jets of water to strike a web to intermingle the fibers, resulting in the bonded fabric being a nonwoven. Nonwovens made by this method have high fabric integrity.

Electronics: this cleanroom grade wipe effectively removes all types of medium, with or without solvents, from stencils, screens, PC boards, squeegees, tools, fixtures and production equipment. Understencil wipes have a high chemical resistance to all current Surface Mount solvents and are manufactured from the same fabric as our SmartRolls® 4000 Series Understencil Wiping Rolls and 401PW SelectaWipe Rolls.

Features

Absorbent: absorbs four times its own weight.

Strong: hydroentangling creates a stronger web, resists tearing and shredding.

Non-abrasive: soft texture, won't scratch surfaces, wet or dry.

Low Particle: low in soluble extractables and metallic ions - no binders, starches or thermal bonding techniques.

Cleanroom Prepared: converted, cleaned and double-bag packaged in a cleanroom environment.

Chemical Tolerance: won't break down, has excellent chemical tolerance.

Cleanroom Class

| | |
|------------------------------------|-----------------|
| ISO 14644-1 Cleanroom Standard | ISO Class 5 - 8 |
| US FED STD 209E Cleanroom Standard | Class 100 |

Basis Weight

| | |
|-----------------------|-----|
| (oz/yd ²) | 2.0 |
| (g/m ²) | 68 |

Thickness

| | |
|--------|-------|
| (mils) | 12 |
| (mm) | 0.305 |

Sorbency Capacity

| | |
|--------------------------------|-----------------|
| Intrinsic (mL/g) | 4.70 |
| Extrinsic (mL/m ²) | 317 |
| Test Method | IEST-RP-CC004.3 |

Nonvolatile Residue (NVR) (mg/g)

| | |
|-------------------|-----------------|
| Deionized Water | 0.673 |
| Isopropyl Alcohol | 0.157 |
| Test Method | IEST-RP-CC004.3 |

Ions (ppm)

| | |
|-------------|-----------------|
| Sodium | 1.43 |
| Chloride | 9.06 |
| Test Method | IEST-RP-CC004.3 |

Particles (million/m²)

| | |
|--------------|-----------------|
| 0.5 - 5.0 µm | 136 |
| 5.0 - 100 µm | 8.8 |
| Test Method | IEST-RP-CC004.3 |

Fibers (fibers/m²)

| | |
|-------------|-----------------|
| >100 µm | 933,000 |
| Test Method | IEST-RP-CC004.3 |

Packaging

| | |
|--|---------|
| Size* | 9" x 9" |
| Wipes/Package | 300 |
| Packages/Case | 12 |
| *custom sizes on request: 4"x4", 12"x12" | |
| Total Wipes/Case | 3600 |

Case Weight & Dimensions

| | |
|------------|-----------------|
| Weight | 31 lbs |
| Dimensions | 19" x 19" x 13" |

Availability

Products are available through global sales and a nationwide network of distributors.

Environmental Policy

As a leading manufacturer and supplier of SMT production supplies; JNJ is committed to providing high quality products and services in a manner that does not impact upon, but enhances the environment.

The data supplied in this document is for guidance only and is not intended to serve as a specification or recommendation. JNJ has made suggestions on which wipers are suitable for cleanroom classifications. However, the final decision should be made by the end user for their specific application. JNJ Industries does not guarantee the accuracy of the information and does not assume liability in connection with any damages that may be incurred while using the product and reserves the right to change the above data without notice.

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