

# SMARTROLLS®

## 4000 Series UnderStencil Wiping Rolls - 4202DK

### Technical Data Sheet

#### Description

4000 Series is a hydroentangled blend of 54% cellulose / 46% polyester cleanroom grade wiping roll for cleaning under stencils between prints. This material effectively removes residual adhesives, solder pastes and fluxes, with or without solvents. Using our high quality wiping roll will help prevent many common production defects like bridging, smearing, solder balls, and other problems associated with circuit board printing. Due to its excellent airflow characteristics, this material will not compromise vacuum power, optimizing aperture cleaning performance. Made from Sontara® fabric, the one material that does it all. 4000 Series UnderStencil Wiping Rolls are the standard in wiping technology!

**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 non-woven. Nonwovens made by this method have high fabric integrity.

**Custom Option:** we offer custom roll configurations to maximize production requirements and improve the wiping process. Eliminate excess waste, minimize contaminated solid waste and reduce hazardous disposal fees.

**Static Dissipative ESD Safe Film:** SmartRolls are shrink wrapped in a protective static dissipative ESD safe film with superior static control capabilities. Our static dissipative ESD safe film has the lowest surface resistivity, that remains at a constant level over extended periods. This transparent film is amine-free and has inherent antistatic properties which provide permanent product stability. Its contact clarity allows easy identification of the packaged contents. Made of top grade polyolefin resins, is polycarbonate compatible, completely recyclable and contains no harmful substances. Our shrink film is a light packaging concept that is environmentally safe and limits post-consumer waste.

#### Features

**Absorbent:** highly absorbent and fast wicking – wicks consistently across the material to ensure a more productive clean.

**Strong:** advanced structure of exceptional strength, even when wet – tear and shred resistance raises MTBF (mean time between failures) and reduces operator intervention, increasing efficiency.

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

**Low Particle:** extremely low in soluble extractables and metallic ions - no binders, starches or thermal bonding techniques. The absence of binder or surface modifiers minimize contamination.

**ESD Packaged:** each roll is shrink wrapped in protective film.

**Chemical Tolerance:** won't break down, resistant to all current Surface Mount solvents.

#### Shelf Life

**Shelf Life:** The shelf life is 1 year when stored under proper conditions and in their original un-opened packaging, stored at room temperature, away from direct heat or sunlight.

The above is typical physical property test data applicable to the sample reference name and should not be construed as a specification.

**Disclaimer:** The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitation any warranty of merchantability and fitness for use. All users of the material are responsible for assuring that it is suitable for their needs, environment and end use. All data is subject to change as High-Tech Conversions deems appropriate.



#### Performance Characteristics:

Test	Value
<b>Basis Weight</b>	
(oz/yd <sup>2</sup> )	1.50
(g/m <sup>2</sup> )	50.8
ASTM Test	D3776
<b>Composition</b>	
Polyester %	46
Wood pulp %	54
<b>Thickness</b>	
(mils)	12
(mm)	0.30
ASTM Test	D1117
<b>Grab Tensile / Breaking Strength</b>	
MD (lbs)	28.0
N	125.0
XD (lbs)	16.0
N	71
N ASTM Test	D5034

#### Packaging:

ITEM	Roll Width	Units/Case
4202DK	515mm (20.27")	15
4202DK-12	305mm (12")	15
4202DK-14	350mm (13.77")	15
4202DK-16	400mm (15.75")	15

**Texas Technologies, Inc. 3600 Whitestone Blvd. Cedar Park, TX 78613**

**512.267.0100 – [www.texastechnologies.com](http://www.texastechnologies.com).**

**E-Mail – [info@texastechnologies.com](mailto:info@texastechnologies.com)**