

## WP8200 Cleanroom Inspection Wipers

### Black Polyester Anti-Static Wipers

**Black Anti-Static Cleanroom Wipers are for cleaning and final inspection of sensitive components in controlled environments.**

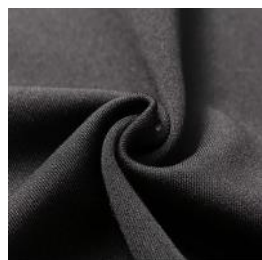
WP8200 ESD Wipers are constructed with 100% continuous filament, no-run knit polyester with laser sealed cut edges. These cleanroom-safe black wipers have been developed to clearly and visibly show small particulate contamination. Their properties make them useful for both the final wipe down and for the final inspection of any surface in a critical environment or anywhere particles compromise quality or performance.

#### ESD Properties

Typical Surface Resistivity is  $10^7$ — $10^8$ . Unlike wipers utilizing grids or stripes of conductive yarns, our ESD Black wipe is uniformly dissipative across its entire surface eliminating potential "hot spots" of charge or the need to contact to a specific grid for electrical discharge.

#### Cleanroom Properties

The WP8200 ESD Wipers are compatible with class 100-1000 cleanrooms (ISO4 - ISO6). Laser sealed edges ensure ultra-low lint and contamination and they are double bagged and vacuum packaged in cleanroom packaging.



## Features

- **Static Dissipative Wipers for General Cleaning and Inspection Applications**
- **Suitable for Class 100 -1000 Cleanrooms (ISO 4—ISO 6)**
- **100% Continuous Polyester Filament with Conductive Carbon Yarn**
- **ESD Resistivity:  $10^7$  -  $10^8$  ohms/sq**
- **Good Solvent Resistance**
- **Lint and Particle Free**
- **Inspection Wipe: Black Color Shows Contamination To Ensure Cleanliness**

#### Applications:

**WP8200 wipers are ideal for wiping critical surfaces to verify cleanliness. They can be used in various industries such as semiconductor, optical, medical, cosmetics, food & beverage, printed circuit boards, building maintenance, automobile, air craft, LCD, magnetic tapes, oil, tools, equipment, glass, optics, etc.**

This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate. However, it is understood and agreed by the users of this document that we will accept no liability for the conclusions reached. Users of this document may therefore wish to perform additional testing before determining that products mentioned are suitable.

## Why Use Black Wipers?

The purpose of wiping a surface with a cleanroom wipe is to remove contaminants including dust, dirt, oil, greases, soot, and flux. But, after wiping, how clean is the surface? How can an operator or quality inspector be sure?

**Visually inspecting the wipe is the quickest and easiest way to check cleanliness.** If the wipe looks dirty and the substrate looks clean, the wiping process was successful. That works well if the wipe and the contaminants are contrasting colors. Since most wipes are white, black or dark color soils are easily seen. However, many contaminants are not dark colored. Instead they are white or light colored. Since they are the same color as the wipe, visually inspecting the used wipe is not completely useful. This is especially true if the contaminant is particulate; especially small particulates.

## How To Use Black ESD Wipers?

The best way to use an inspection wipe is to quarter fold it. The wipe is then held in the hand with the cut edges in the palm. The thumb should hold the four corners firm in the palm while the fingers apply pressure on the wipe, just behind the folded edges. The wipe can then be refolded to expose four fresh cleaning surfaces that are untouched.

### Specifications:

Fabric:	Polyester and Conductive Carbon
Size:	9"x9"
Basis Weight:	140 gsm
Thickness:	0.48-0.56 mm
Resistivity:	10 <sup>7</sup> -10 <sup>8</sup> ohms/sq (1Side)
Absorptive Capacity:	300 ml/m <sup>2</sup>
Absorptive Rate:	1.0 sec
Non-volatile Residue, NVR	0.0115 mg/g (DI Water) 0.433 mg/g (IPA)
Organics by FTIR	No Silicone Oil, Amine, DOP detected
Particles:	
LPC sizes@>0.5um	6.59 x 10 <sup>6</sup> counts/m <sup>2</sup>
APC Sizes@0.5um	9.57 x 10 <sup>2</sup> counts/m <sup>2</sup> /cfm
Ionics, IC:	
Bromide	0.0015 mg/g
Nitrate (NO <sub>3</sub> )	0.00002mg/g
Nitrate (NO <sub>2</sub> )	0.00052 mg/g
Sodium (NA)	0.000015 mg/g
Ammonium (NH <sub>4</sub> )	0.0041 mg/g

### Product Number

WP8200 Wiper, Static Dissipative, 9"x9",  
150 wipers Per Pack



Packaged 150 wipers to a pack, vacuum sealed and double bagged.

## About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.



# TRANSFORMING TECHNOLOGIES

OUTSTANDING ALTERNATIVES IN STATIC CONTROL

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