

# COVENTRY™

Clean Room

Division of ITW Chemtronics®

## Static Dissipative Technology

TDS # ESD-2

### PRODUCT DESCRIPTION

**Static Dissipative Technology Swabs** have been engineered to eliminate static electricity concerns. The handle of these Coventry swabs are static dissipative.

They are non-contaminating and have excellent solvent compatibility, even in acetone. These swabs are a perfect choice for cleaning static sensitive components and working around static sensitive parts. These handles are available with sealed foam or fabric swabs. All Coventry™ swabs are packaged in non-contaminating ESD safe plastic bags.

### TEST METHOD

The charge **dissipating test method** consisted of a common ground connecting to a wrist strap and a conductive rubber glove. After wetting only the swab head with alcohol the entire swab is used as an electrical conduit to discharge a static 1,000-volt charge to less than 50 volt charge in less than four (4) seconds. A charge plate with a 20pF capacitance to ground and a charge plate monitor system was used to measure the static discharged rate 1,000 V to less than 50 V in less than 4 seconds. The discharge rate from 1000 V to 0 V is also listed below.

The **tribo-charge test method** consists of grounding the plate to zero (0) volts. Wet the tip of the swab only. With the grounded / conductive gloved hand rub the swab on the charged plate. Make sure the wrist-grounding strap is on tight around the glove. The swab should not generate any significant amount of voltage.

ESD Swab Test Results, At 50 - 60% RH, Average Discharge Time Seconds					
Swab Part Number	(1K to <50V) Conductive Glove Wet	(1K to 0 V) Conductive Glove Wet	(1K to 0 V) Gator Clip Dry	(1K to 0 V) Gator Clip Wet	Tribo-charge Voltage
38540I ESD	2.9	5.3	60+	13.7	0.000
38540 ESD	2.7	4.9	60+	-	0.000
38040 ESD	2.3	3.9	60+	17.5	0.000
44070 ESD	2.3	3.5	60+	12.5	0.000
41050 CON	-	7.0	60+	0.1	0.000

### MANUFACTURED BY:

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