

# CHEMTRONICS

## Technical Data Sheet

**TDS CC505F**

### MTP Connector Cleaning Swabs

#### PRODUCT DESCRIPTION

Chemtronics® MTP Connector Cleaning Swabs are the cleaning tool specifically for cleaning MTP connections. They feature an exclusive chamois material engineered to quickly and safely clean MTP connectors, without leaving residue. The material has super absorption which pulls soils and solvents from end faces even in deeply recessed MTP connections where wiping is difficult.

- Ideal size and dimension for MTP connector cleaning
- Seamless blunt design makes precise contact with MTP end face
- High absorbency swab quickly and safely removes contaminants
- Free of adhesives or binders; will not leave residue
- Can be used with Electro-Wash® PX Fiber Optic Cleaner for hard-to-remove soils
- Available in durable, field-ready, transparent tubes
- Patented —U.S. Patent #7,526,830 and foreign patents

#### TYPICAL APPLICATIONS

Chemtronics® MTP Connector Cleaning Swabs can be used to:

- Clean all MTP connectors
- Easily remove soil between and from alignment pins

#### COMPATIBILITY

Chemtronics® MTP Connector Cleaning Swabs are compatible with most common solvents such as isopropyl alcohol and methanol. Not recommended for use with ketones such as acetone or methyl ethyl ketone.

#### CHEMTRONICS

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Kennesaw, GA 30152 USA  
1-770-424-4888

REV. (05/14)



**CC505F**



## AVAILABILITY

Product Number	Swabs per Tube	Swab Length	Head Material	Head Width/Length	Handle Material	Handle Thickness
CC505F	25	3.25"(8.25 cm)	Synthetic Chamois	0.09" x 0.88" (2.3 mm x 22.3 mm)	ABS	0.09" x 0.060" (2.3 mm x 1.6 mm )
CC5056F	25	6" (15.4 cm)	Synthetic Chamois	0.09" x 0.88" (2.3 mm x 22.3 mm)	ABS	0.09" x 0.060" (2.3 mm x 1.6 mm )

## DIRECTIONS FOR USE

1. Lightly “spot” a QbE<sup>®</sup>-2 wipe on the platen with Electro-Wash<sup>®</sup> PX Fiber Optic Cleaner, or with the Fiberwash<sup>™</sup> or MX pen.
2. Lightly touch the end of the MTO Connector Swab to the wetted area to absorb some cleaning solution. Wipe connector areas to be cleaned.
3. Use another MTP Connector Cleaning Swab to dry cleaned area, only if required.
4. Check your work with a fiber scope or measuring device.

**NOTE: This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. Chemtronics does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.**

## TECHNICAL AND APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401**.

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**Technical Data Sheet****Electro-Wash® MX Cleaner Degreaser  
Presaturated Wipe****PRODUCT DESCRIPTION**

Electro-Wash® MX Cleaner Degreaser is a high flash point cleaner that quickly removes soils, adhesives, and residues from insulation jackets and conductors on telecom, fiber optic and coaxial cables. Engineered with very low surface tension, this formulation penetrates and removes soils quickly with excellent wetting action, lifting and removing soils from the dirtiest areas. Electro-Wash® MX Cleaner Degreaser is also ideal for removing carbonization, oxidized oils and greases from metal surfaces.

- Removes encrusted dirt, grease, silicone and other contaminants
- Removes flooding compound and “ickypic”
- Moderate evaporation
- Leaves no residues
- Low odor
- Contains no CFCs or HCFCs
- Contains no chlorinated solvents

**TYPICAL APPLICATIONS**

Electro-Wash® MX Cleaner Degreaser is engineered to clean:

- Fiber Optics & Connectors
- Cables
- Hard-line Coax Cable
- Metal & Fiber Optic Cable Splices
- PC Boards
- Motors & Transformers
- Control Systems
- Screens & Stencils

**TYPICAL PRODUCT DATA AND  
PHYSICAL PROPERTIES**

<b>Boiling Point</b>	239° F Initial
<b>Flash Point (TCC)</b>	45° F
<b>Evaporation Rate (butyl acetate=1)</b>	>1
<b>Specific Gravity</b>	0.72
<b>Appearance</b>	Clear, Colorless Liquid
<b>Odor</b>	Hydrocarbon
<b>Kauri-Butanol (KB) Number</b>	29
<b>Solubility in Water</b>	Negligible
<b>Shelflife</b>	5 years

**COMPATIBILITY**

Electro-Wash® MX Cleaner Degreaser is generally compatible with most materials. As with any cleaning agent, solvent/component compatibility must be determined on a non-critical area prior to use.

<b><u>Material</u></b>	<b><u>Compatibility</u></b>
ABS	Excellent
Buna-N	Excellent
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
Kynar™	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Excellent
Noryl®	Excellent
Nylon 66™	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Excellent
Teflon™	Excellent
Viton™	Excellent

## USAGE INSTRUCTIONS

For commercial use only.

Read MSDS carefully prior to use.

Remove wipe from packets and lightly wipe away any dust or contaminants from surfaces. Allow surface to dry completely before use.

## AVAILABILITY

CP421 Presaturated Wipes (25/box)

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## ENVIRONMENTAL IMPACT DATA

ENVIRONMENTAL IMPACT DATA			
CFC	0.0%	VOC	100%
HCFC-141b	0.0%	HFC	0.0%
HCFC-225	0.0%	nPB	0.0%

CFC, HCFC-225, HCFC-141b, VOC, HFC, and nPB percentages shown are the content by weight.

### NOTE:

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# CHEMTRONICS®

## Technical Data Sheet

**TDS # FW2150**

### Electro-Wash® MX Pen

The Convenient Fiber Optic Cleaning Pen

#### PRODUCT DESCRIPTION

Electro-Wash® MX Precision Fiber Optic Cleaning Pen is engineered for cleaning fiber optic connectors, splices and ribbons. This precision cleaner quickly and safely cleans the end face of fiber optic connectors, while eliminating electrostatic charges that promote particles adhering to the end face surface. The cleaning formulation is plastic safe and residue free. This non-pressurized container can be easily transported, shipping as a “Dangerous goods in excepted quantity”. For best results, use with the QbE® Cleaning Platform, or with the Combination Cleaning process (CCp™).

- Specifically formulated for cleaning all fiber optic connectors
- Removes handling soils, dust, oils and airborne contamination
- Completely portable and easily transportable
- Cleans alone, with the QbE® Cleaning Platform, or with the Combination Cleaning process (CCp™)
- Cleans and eliminates electrostatic deposits of airborne contaminants

#### TYPICAL APPLICATIONS

Electro-Wash® MX Precision Fiber Optic Cleaning Pen can be used for all repair and maintenance fiber optic applications including:

- Connector end face cleaning
- Cleaning fiber and splice trays pre-splice
- Cleans tools and meters
- Cleans cables
- Removes road tar and asphalt grime
- All repair and maintenance spot cleaning

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Hydrocarbon
Solubility in Water	Negligible
Specific Gravity	0.72 @ 75°F (23.9°C)
Evaporation Rate	<1 (Butyl Acetate = 1)
Flash Point (TCC)	45°F (7.2°C)
Kauri-Butanol (KB) Number	29
Shelf life	5 years

#### COMPATIBILITY

Electro-Wash® MX Precision Fiber Optic Cleaning Pen is compatible with most materials used in telecommunications. As with any solvent, compatibility with substrate should be determined on a non-critical area prior to use.

<b><u>Material</u></b>	<b><u>Compatibility</u></b>
ABS	Excellent
Buna-N	Excellent
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
Kynar™	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Excellent
Noryl®	Excellent
Nylon 66™	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Excellent
Teflon™	Excellent
Viton™	Excellent

## **SAFETY & ENVIRONMENTAL DATA**

<b>SAFETY &amp; ENVIRONMENTAL DATA</b>			
CFC	0.0%	VOC	100%
HCFC-225	0.0%	HFC	0.0%
HCFC-141b	0.0%	nPB	0.0%

CFC, HCFC-225, HCFC-141b, VOC, HFC, and nPB percentages shown are the content by weight.

### **NOTE:**

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## **USAGE INSTRUCTIONS**

### **Read MSDS carefully prior to use.**

1. Hold pen vertically and depress tip. Rub pen on surface to be cleaned.

2. When using with a QbE® Cleaning System, pull one QbE® wipe over the Fiber-Safe foam platen and depress the pen tip onto the wipe to start liquid flow.

3. Apply a small amount (1" diameter) of Electro-Wash® MX onto the wipe. Follow the Combination Cleaning process (CCp™) as follows:

- Hold the end-face at 90° perpendicular to the QbE® platen; allow the end-face to glide over wipe. Remember to adjust for APC connections
- Draw the end-face lightly over the platen in a smooth linear motion • Do not press too hard
- Do not retrace your cleaning procedure in the same area • Do not use a figure-eight motion; do not use a "twist & turn" motion • Check your work with a fiber scope or measuring device

## **AVAILABILITY**

**FW2150** 11g (0.39 oz.) Pen

**FW2150BLK** Box of 24 pens without blister card

## **TECHNICAL & APPLICATION ASSISTANCE**

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REV. 05/09

# CHEMTRONICS

## Technical Data Sheet

**TDS # pQbE**

### pQbE Pocket Cleaning Platform

#### PRODUCT DESCRIPTION

pQbE® is the patented Precision Wipe System for cleaning fiber optic end-faces. It is a self-contained cleaning tool that is best used wet (with solvent) but can be used dry for light applications. The pQbE® is convenient and economical for use in field or OEM applications. Its compound cleaning platen surfaces facilitates cleaning of the end-face, chamfer and ferrule. The wipe material is a proven 55% cellulose/45% polyester fabric specially processed to impart softness and extra absorbency.

- Compound platen surface cleans all end-face geometries: SC, LC, FC, APC, MT and FTTH
- Effective dry; very effective wet
- Provides an ideal cleaning system for field or OEM applications
- Convenient Size - Portable system easily fits into tool cases or pockets.
- Heavy Duty Lint-Free wiping material tough-enough to remove buffer-gel; soft enough for all end face cleaning
- Wipe material won't shred or tear
- Clear, tough waterproof box protects wipes from contamination and shows remaining wipe count.
- Clip-on lanyard ensures convenient access

#### TYPICAL APPLICATIONS

pQbE® wipes are used in Fiber Optic and Telecommunications applications for:

- Complete end-face cleaning for all end-face types
- Splice Preparation
- Buffer Gel Removal

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

pQbE® wipes are 100% noncontaminating material. These wipes have high absorbency and contamination entrapment capacity, as well as high wet strength.

- Excellent solvent resistance
- Excellent particle entrapment
- High absorbency capacity and rate
- Very low solvent extractables
- High wet strength

#### COMPATIBILITY

pQbE® wipes are compatible with most common solvents such as alcohols, hydrocarbons and water-based cleaners.

#### TECHNICAL AND APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401.**

Visit us at

[www.combinationcleaning.com](http://www.combinationcleaning.com), or  
[www.chemtronics.com](http://www.chemtronics.com)

#### AVAILABILITY

<b>pQbE® Wipes</b>	1.375" x 3"
	(3.6 cm x 7.6 cm),
	200 wipes/box



## USAGE INSTRUCTIONS

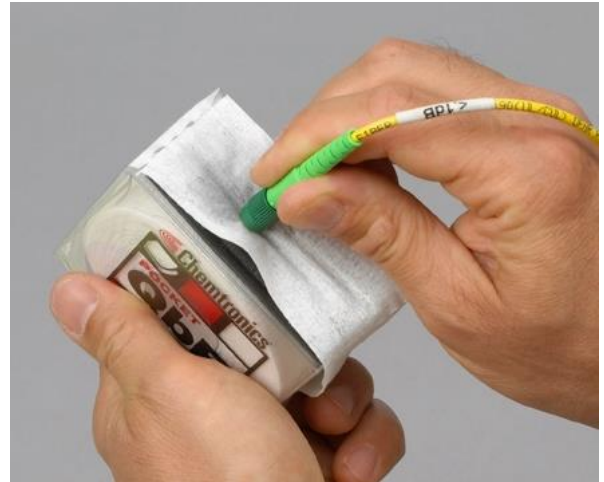
## “Dry” Cleaning with the pQbE®

1. Pull one QbE<sup>®</sup>-2 Wipe over the fiber-safe foam platen.
2. Hold the end face at a 90 degree perpendicular to the platen.
3. Draw the end face lightly over the platen in a smooth linear motion - do not press too hard.
4. Do not retrace your cleaning procedure in the same area.
5. Do not use a figure-eight motion; do not use a “twist & turn” motion.
6. Check your work with a fiber scope or measuring device.



## “Wet” Cleaning with the pQbE®

1. Lightly “spot” the pQbE<sup>®</sup> wipe on the platen with Electro-Wash<sup>®</sup> PX Fiber Optic Cleaner, or with the Fiberwash<sup>™</sup> or MX pen.
2. Draw the end-face from the solvent wetted area to the dry area.
3. Check your work with a fiber scope or measuring device.



### For Splice Preparation

1. Lightly moisten pQbE<sup>®</sup> wipe and gently wipe away fiber contaminants.
2. Lightly dampen a 38540ESD swab, remove soil from V-grooves on fusion splicer.

## Buffer Gel Removal

1. Pull three single pQbE<sup>®</sup> Wipers out of the container.
2. Spray a small amount of Electro-Wash<sup>®</sup> PX Fiber Optic Cleaner or MX into the folded wipers.
3. Pull the cable through the first wiper and discard.
4. Repeat until the cable “squeaks” clean.

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# COVENTRY™ Clean Room Products

Division of ITW Chemtronics ® Inc.

**TDS # 6700**

## Econowipes™ Non-Woven Wipes

### PRODUCT DESCRIPTION

**Econowipes™** consist of 55/45 cellulose/polyester nonwoven fabric. These wipes have excellent absorbency, and contamination entrapment, as well as high strength. Econowipes™ are ideal as an economical utility wipe for any clean area.

- Excellent solvent and dilute acid resistance
- Economical
- Excellent durability
- Excellent particle entrapment
- High absorbency capacity and rate
- Low ion contamination
- Packaged in a Class 100 environment
- Low linting compared to cotton
- Quarter fold on 6713 improves handling
- Creped pattern on 6713 improves softness and absorbency

### TYPICAL APPLICATIONS

**Econowipes™** can be used to:

- Clean Water Processing Areas
- Clean-up Acids and other Chemical Spills
- Wipe Down of Machinery, and Instrumentation
- Clean Photo-Mask Areas
- Clean Laminar Flow Benches
- Clean Quartzware
- General Purpose Wiping in Cleanrooms

### COMPATIBILITY

**Econowipes™** are compatible with most common solvents such as isopropyl alcohol, methanol and ketones such as acetone or methyl ethyl ketone. These wipes are generally compatible with dilute or weak acids.

### AVAILABILITY

#### Econowipes™

- 6704** 4" x 4" (10.2cm x 10.2cm)  
Cellulose/Polyester nonwoven wipe,  
1200/bag (12 x 100/inner bag)
- 6709** 9" x 9" (22.9cm x 22.9cm)  
Cellulose/Polyester nonwoven wipe,  
3600 wipes/case (12 x 300/bag)
- 6713** 12" x 13" (30.5cm x 33.0cm)  
Cellulose/Polyester nonwoven wipe,  
Embossed crepe pattern, quarter folded  
500 wipes/case (10 x 50/bag)
- 6736** 36" x 36" (91.4 cm x 91.4 cm)  
Cellulose/Polyester nonwoven wipe,  
quarter folded  
250 wipes/case (10 x 25/bag)

### RoHS/WEEE

#### Status



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1-770-424-4888

REV. (06/06)

**TECHNICAL HOT LINE 1-800-TECH-401**

# Econowipes™ Test Data

Wipe Material	Cellulose/Polyester Nonwoven Fabric
Wipe	6700
Available Dimensions	4" x 4" (6704)
	9" x 9" (6709)
	12" x 13" (6713)
Basis Weight	64-75 g/m <sup>2</sup>
Particle Counts >= 100 microns	7.3 million/m <sup>2</sup>
Chloride Ions	25 ppm
Sodium Ions	60 ppm
Potassium	6 ppm
Phosphate Ions	None detected
NVR extracted in isopropanol	0.05 g/m <sup>2</sup>
NVR extracted in deionized water	0.08 g/m <sup>2</sup>
Absorbency	234 ml/m <sup>2</sup>
Capacity	300 %

## TECHNICAL AND APPLICATION ASSISTANCE

Coventry™ Clean Room Products provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401**.

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# **COVENTRY™** Clean Room Products

**TDS # 25123**

*Division of ITW Chemtronics®*

## **1.25 mm Fiber Optic Sleeve Cleaning Swab – Polyester Fiber Tip**

### **PRODUCT DESCRIPTION**

The 1.25 mm Fiber Optic Sleeve Cleaning Swab (patent pending) is ideally suited for cleaning contamination from 1.25 mm fiber optic sleeves and polishing pucks. The 1.25 mm diameter polyester tip fits tightly and conforms to the inside of all 1.25 mm mating sleeves, adapters and slurry polishing fixtures. Critical surfaces are cleaned of all contamination. This swab may be used wet or dry to remove dirt and oil contamination. Solvent cleaners such as Electro-Wash® PX or Electro-Wash® CZ cleaner degreasers are 100% compatible with this swab. No adhesives are used in our proprietary manufacturing process, thereby minimizing leachable contaminants. The swab head contains no seams or hard surface that could scratch critical surfaces.

Patent Pending.

This product is not designed or intended for cleaning the optical surface of connectors.

### **TYPICAL APPLICATIONS**

Cleaning of fiber optic sleeves 1.25 mm in size.

Removal of slurry from 1.25 mm ferrule polishing fixtures.

### **COMPATIBILITY**

Coventry's Fiber Optic Sleeve Cleaning Swab is compatible with Electro-Wash® PX and Electro-Wash® CZ cleaner degreasers, isopropyl alcohol and acetone.

### **AVAILABILITY**

- |               |  |
|---------------|--|
| <b>25123X</b> | 1.25 mm head diameter, 17 mm head length<br>Polypropylene handle<br>Overall swab length 6 inches<br>100 / bag, 5 bags per box. |
| <b>25125F</b> | 1.25 mm head diameter, 17 mm head length<br>Polypropylene handle<br>Overall swab length 6 inches<br>15/Tube                    |

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# COVENTRY<sup>TM</sup> Clean Room Products

Division of ITW Chemtronics®

## 2.5 mm Fiber Optic Foam Swab

TDS # 48042F

### PRODUCT DESCRIPTION

Coventry<sup>TM</sup> Sealed Foam Swabs are constructed from reticulated 100 pores per inch medical grade polyurethane foam which features the best open cell structure, providing excellent particle entrapment characteristics. The foam is thermally bonded to the swab handle without using adhesives. These swabs are economical and ideal for general applications. They are characterized by the following features:

- Traps surface particles while cleaning
- High solvent capacity; holds solvent well
- Fiberless construction does not generate loose fibers or particles
- No adhesives or binders are used in the construction
- Economical for high quantity applications
- Available Aqua-Prime<sup>TM</sup> processed
- Sized to fit 2.5mm fiber optic connectors
- Soft polyurethane foam will not scratch surfaces
- Swab head gently conforms to surface

### TYPICAL APPLICATIONS

- Remove particulate and oily contaminants from 2.5mm fiber optic connector end faces
- Especially effective as end face cleaner in back plane applications when used in the CCP<sup>TM</sup> Combination Cleaning Process with Electro-Wash<sup>®</sup> PX solvent and the QbE<sup>TM</sup> wiper
- To clean excess adhesives after gluing
- Precision application of lubricants and solvents
- 2.5mm alignment sleeve cleaning
- Micro mechanical cleaning
- Remove flux residue from printed circuit boards
- Good for general purpose cleaning

### COMPATIBILITY

Foam heads are compatible with most common solvents such as light aliphatics, isopropyl alcohol, and methanol. Not recommended for use with ketones such as acetone or methyl ethyl ketone.

Polypropylene handles are compatible with all common solvents including organic solvents and most acids.

Specifically designed for use with Electro-Wash<sup>®</sup> PX, Electro-Wash<sup>®</sup> MX and Electro-Wash<sup>®</sup> CZ. For detailed instructions, on the Combination Cleaning Process<sup>TM</sup> Refer to FO-Chem-6.

### AVAILABILITY

**48040** 2.75 " (6.8 cm) Polypropylene Handle 0.41" (10.5 mm) Foam Head, Flexible Paddle Tip  
500 swabs/bag  
5 bags/case

**48042F\*** 2.75 " (6.8 cm) Polypropylene Handle 0.14" (3.56 mm) Foam Head, Flexible Paddle Tip  
50 swabs/tube  
18 tubes/case



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1-770-424-4888 REV. (06/07)

**TECHNICAL HOT LINE 1-800-TECH-401**

# Sealed Foam Swabs Test Data

<b>Swabs:</b>	<b>48040; 48042F (EFB-10)</b>
Swab Head Material	100ppi urethane open-cell (zap) foam
Head Diameter	0.10"(2.5 mm)
Handle Length	2.75"(7.0 cm)
<b>Particle Counts:</b>	
0.5 – 1.0 µm	797
1.0 – 2.0 µm	230
2.0 – 5.0 µm	66
5.0 – 10.0 µm	24
10.0 – 25.0 µm	11
over 25.0 µm	2
<b>TOTAL</b>	<b>1,130</b>
<b>N V R</b> (µg/swab)	none detected
<b>Chlorides</b> (µg/swab)	none detected

The swabs were tested by Particle Measurement Technology. All tests were done using the recommended practices of the Institute of Environmental Science, Swabs and Wipes Working Group.

## RELATED PRODUCTS

25183	Swab for 2.5mm Connector Cleaning
25125F	Swab for 1.25mm Connector Cleaning
38542F	Swab for Ferrule and Fusion Splice V-Groove
51125F	Fusion Splice Mirror Cleaning Swab
QbE®	Fiber Optic Cleaning System
ES7100	Electro-Wash® CZ Aerosol
ES810	Electro-Wash® PX Aerosol
ES1621	Electro-Wash® MX Aerosol
FW2150	Electro-Wash® MX Pen
CFK1000	Fiber Optic Cleaning Kit

## TECHNICAL ASSISTANCE

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