

FOCCUS

CONNECTING AT THE SPEED OF LIGHT™

PRODUCTS FOR FIBER OPTIC CLEANING

V.1.0

 **Chemtronics®**



FOCCUS™

CONNECTING AT THE SPEED OF LIGHT™

Chemtronics is the industry leader for fiber optic cleaning products, providing performance, convenience, time savings and cost savings. Cleaning fiber optic connectors is fast, easy and reliable with our highly engineered solvents, lint-free swabs, precision wipes, and cleaning platforms.

Importance of Fiber Optic Cleaning

Transmission speeds and data capacities are measured in gigabytes, terabytes, petabytes, and beyond as networks evolve beyond copper to fiber optics. This requires well-trained technicians with effective cleaning processes and materials – the critical first step before test and deployment. A cleaning process must be effective on a wide variety of contamination and across all zones of the end face, or the resulting interference will negatively impact transmission rates and reliability.

Choose Proven Products and Processes

Testing and field experience consistently shows the Combination Cleaning™ process in conjunction with FOCCUS™ fiber optic cleaning products provide proven effectiveness with maximum repeatability. FOCCUS™ cleaning platforms, swabs, and kits are available to clean all types of connectors including: SC/LC UPC and APC, OptiFit™, MT-Types, e2000™, and various expanded beam geometry. Go to page 5 for more details on the Combination Cleaning™ process.

The Advantages of FOCCUS™ Fiber Optic Products and Combination Cleaning™:

- Reduce backscattering and reflectance caused by contamination
- Increase transmission rates
- Save time & money replacing connectors
- **Improve quality, reduce cost... Increase profit!**

Dedicated Customer Support

Live support is available via our technical hotline at **1-800-TECH-40**



Electro-Wash® PX

Extra-strength universal cleaner and degreaser safe for use on plastics

- Safe on plastics
- Flammable
- Extra cleaning strength
- Dries fast, leaves no residue
- Removes organic and ionic soils

Applications:

- Cleaning fiber optic end faces
- Cleaning cables, hard-line coax cables

ES810 5 oz / 141 g trigger aerosol
ES1210A 12.5 oz / 354 g trigger aerosol
ES1210 12.5 oz / 354 g aerosol

Electro-Wash® MX

Extra-strength, plastic safe universal cleaner with moderate evaporation time

- Safe on plastics
- Flammable
- Extra cleaning strength
- Moderate evaporation rate increases cleaning power
- Leaves no residue
- Removes organic and ionic soils

Applications:

- Cleaning cables, equipment housing, tools

ES1621 10 oz / 283 g aerosol

Electro-Wash® CZ

Non-ozone depleting, nonflammable cleaner degreaser safe for use on plastics

- Safe on plastics
- Nonflammable
- Dries fast, leaves no residue

ES7100 12 oz / 340 g aerosol
ES7101 1 gal / 3.7 L liquid

Pow-R-Wash™ Cable Cleaner

Extra-strength, plastic safe cable and contact cleaner with a moderate evaporation time

- Safe on plastics
- Flammable
- Dielectric breakdown of 63 kV
- Leaves no residue

ES2425 13.5 oz / 385 g aerosol

IPA - Isopropyl Alcohol

Conveniently packaged and easy to use 99.8% technical grade isopropyl alcohol

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue
- Cleans hard-to-reach areas

ES820L 8 fl oz / 236 ml liquid

Ultrajet®

Duster with the BIGGEST blast to clean anything fast

- Nonflammable
- Highest powered cleaning strength
- Zero VOC
- Filtered to 0.2 microns
- 100% ultra-pure HFC-134a — leaves no residue
- Safe on plastics

ES1020 10 oz / 283 g aerosol

Ultrajet® All-Way

Nonflammable invertible duster with the BIGGEST blast

All-Way Spray can be sprayed into hard to reach places without the risk of dispensing a liquid spray that can freeze or damage sensitive surfaces.

ES1620 8 oz / 226 g aerosol

Fiber-Wash™ Fiber Optic Cleaning Pens

- Specifically formulated for cleaning all fiber optic connectors
- Removes handling soils, dust, oils and airborne contamination
- Cleans alone or in combination with cleaning platforms, CCT™ tools or swabs
- Cleans and eliminates electrostatic deposits of airborne contaminants
- Completely portable — controlled dispensing of cleaning solution



Fiber-Wash™ MX Precision Cleaner Pen
 Extra-strength, plastic safe precision cleaner

FW2150 9 g / 0.32 oz pen
FW2150BLK Box of 24 pens, 9g each



Fiber-Wash™ AQ Precision Cleaner Pen
 Nonflammable, aqueous fiber optic cleaner

FW2190 5 g / 0.2 oz pen

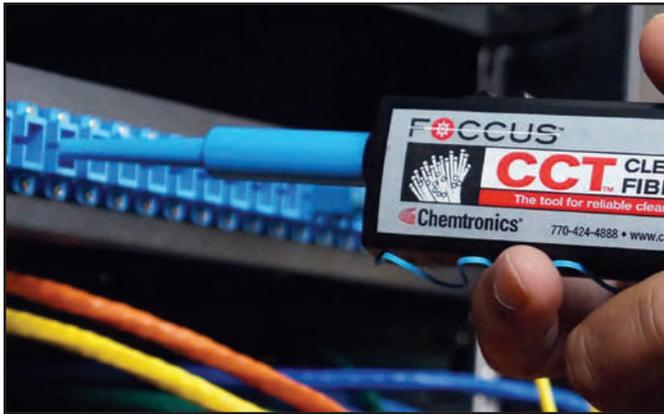


Fiber-Wash™ NF Precision Cleaner Pen
 Nonflammable, fast drying fiber optic cleaner

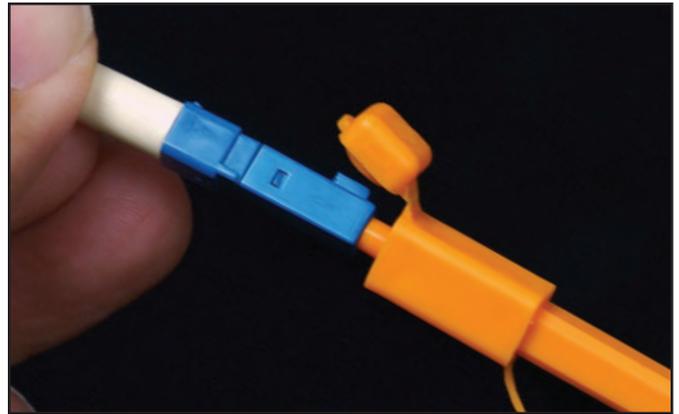
FW2170 10 g / 0.4 oz pen



CLEAR CONNECTION TOOL



Remove cap for cleaning adapters and bulkheads



Flip open cap for cleaning connectors

Fast, Effective Fiber Connector End-Face Cleaning

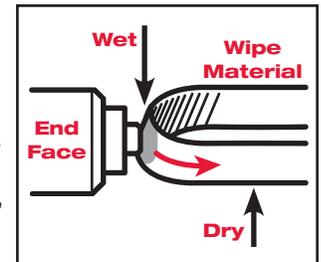
CCT™ Clear Connection Tool used with the FOCCUS™ MX Precision Cleaning Pen provides a fast, simple method of fiber optic cleaning. End faces in bulkheads or on cable assemblies are both effortlessly cleaned the first time . . . every time.

CCT has an easy to use mechanism that advances fabric over a cleaning tip with just a short push and click of the tool. Using the CCT with the FOCCUS MX Precision Cleaning Pen provides for fast, easy and repeatable Combination Cleaning™.

- Cleans connectors on back plane and on jumpers
- Uses Combination Cleaning™ process for first time cleaning, every time
- Effective for the widest range of contaminants
- Easy to use for quick and reliable cleaning
- Rugged and durable, great for all work sites
- Up to 800 cleanings per tool

Combination Cleaning™ process with CCT Clear Connection Kit

To wet the CCT fabric tip with the MX pen, insert the CCT tip into the connector, and push in the tool 2-3 clicks advancing the fabric from wet-to-dry, perfectly cleaning the end-face. Combination Cleaning™ eliminates all debris and contamination the first time, avoiding expensive rework and truck-rolls from bad connections.



Combination Cleaning™ is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.



CCT-125 Clear Connection Tool
Cleaning tool for MU and LC connectors



CCT-250 Clear Connection Tool
Cleaning tool for FC, SC and ST connectors



CCT-MPO Clear Connection Tool
Cleaning tool for MPO connectors



QbE® Cleaning Platforms

Portable, efficient wiping platform for cleaning fiber optic end faces

QbE® Cleaning Platforms offer a more complete removal of microscopic contaminants, without the chance of damage to the optical fiber end face. Self-contained cleaning tools that can be used dry or wet, they are convenient and economical for use in field or OEM applications.

- Complete Fiber Optic Cleaning System — no refills to buy or investment in expensive mechanisms to maintain
- Up to 600 cleaning applications using the Combination Cleaning™ process
- Provides the optimum cleaning surface – FiberSafe™ cleaning platen is perfect for outside plant or OEM applications
- Heavy duty lint-free wiping material — tough enough to remove buffer-gel and heavy soils, yet soft and compliant for safe end face cleaning
- Patented — U. S Patent Number 6,865,770 and foreign patents



QbE – Cleaning Platform for LC, SC, ST & FC Connectors

QBE 200 perforated wipes per box
2.75" x 3" / 7.0 cm x 7.6 cm

Cleaning Platform for LC, SC, ST & FC Connectors

Cleaning surface is grooved for alignment pins on MT and MPO connectors.

QBE-R 200 perforated wipes per box
2.75" x 3" / 7.0 cm x 7.6 cm

Cleaning Platform for LC, SC, ST & FC Connectors

Cleaning surface is grooved for alignment pins on MT and MPO connectors.

PQBE 200 perforated wipes per box
1.375" x 3" / 3.6 cm x 7.6 cm

Cleaning Platform for LC, SC, ST & FC Connector

QBE-2 200 perforated wipes per box
1" x 2.5" / 2.54 cm x 6.35 cm

SqR™ Compact Fiber Optic Cleaning Platform

Compact, precision wiping platform for cleaning fiber optic end faces

- Developed specifically for tight storage and transportation with test equipment and network components
- Large flat wiping surface provides up to 40 end face cleanings
- Use with Electro-Wash® PX or Fiber-Wash™ cleaning pens to perform the Combination Cleaning™ process

Applications:

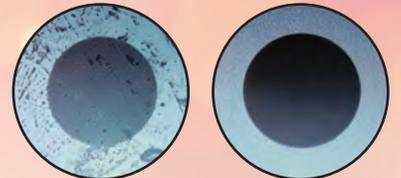
- End face cleaning
- Fusion splice preparation
- Buffer gel removal

SQR 10 bonded wipes per pad
4" x 4" / 10.1 cm x 10.1 cm



FOCCUS™ Combination Cleaning™

Clean the first time... Every time!

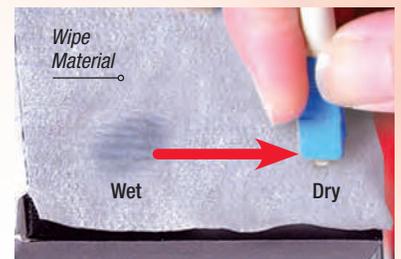


Connector contaminated with dirt & oils

Connector after FOCCUS™ Combination Cleaning™

FOCCUS products are designed for optimal cleaning of connectors using the Combination Cleaning™ process. The end face is passed through a lightly moistened spot on the lint-free wiper, then drawn into the dry area. The large cleaning platform assures the proper angle for UPC and APC connectors.

Combination Cleaning™ Process



Effective on common soils:

- Finger oils
- Mineral oils and grease
- Gels & pulling lubricants
- Dust, dirt & carbon
- Water & salt residue & more

Combination Cleaning™ is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.

Dry media can smear oils, not fully remove dry particulates, and can create a static field that attracts and holds onto additional debris. Wet cleaning can oversaturate connectors, drawing up contamination from around the ferrule. Without Combination™ Cleaning, additional cleaning passes, replacement jumpers or connectors may be required.

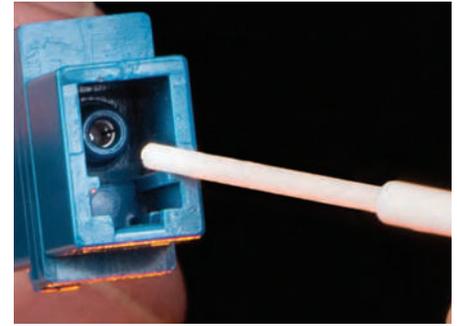
Fiber Optic Cleaning Swabs



25183



48040



25123X

2.5mm Precision Fiber Optic Swabs

Ideal precision cleaning swab for cleaning 2.5 mm fiber optic connectors

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
25183	100/bag	6.0"/15.2 cm	0.08"/2.0 mm	1.0"/2.5 cm	0.10"/2.5 mm	0.10"/2.5 mm	Polypropylene	Proprietary Foam Material



2.5 mm Fiber Optic Foam Swab

Versatile, effective, and cost-efficient swab for cleaning end faces and equipment test ports

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
48040	500/bag	2.7"/6.8 cm	0.09"/2.2 mm	0.41"/10.5 cm	0.10"/2.5 mm	0.12"/3.0 mm	Polypropylene	Polyurethane Foam
48042F	50/tube							



1.25mm Fiber Optic Sleeve Cleaning Swab

Ideal tool for cleaning 1.25 mm fiber optic sleeves, back plane connections and polishing pucks

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
25123X	100/bag	6.0"/15.2 cm	0.08"/2.0 mm	0.67"/1.7 cm	0.05"/1.25 mm	0.05"/1.25 mm	Polypropylene	Proprietary Polyester
25125F	15/tube							



MTP Connector Chamois Swab

Ideal chamois swab for MTP cleaning

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
CC505F	25/tube	3.25" 8.3 cm	0.08" 2.0 mm	0.88" 22.3 mm	0.08" 2.0 mm	ABS	Synthetic Chamois



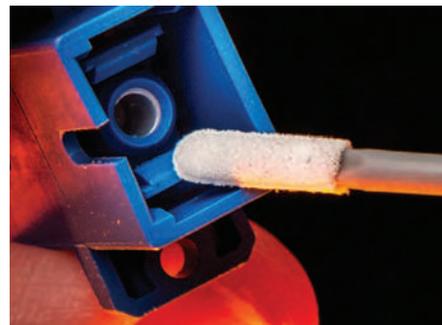
CC505F



38040



51121



38040

V-Groove & Ferrule Cleaning Swabs

Swab for V-groove and ferrule cleaning

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
38540	500/bag	2.7"	0.09"	0.46"	0.04"	0.12"	Polypropylene	Nonwoven
38542F	50/tube	6.9 cm	2.3 mm	11.7 mm	1.0 mm	3.0 mm	Flexible Tip	Polyester



Fusion Splice Mirror Cleaning Swabs

Cleanroom laundered fabric formed into a unique tool for fusion splice mirror cleaning

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
51121	25/bag	2.8"/7.1 cm	0.10"/2.5 mm	0.40"/10.2 mm	0.25"/6.5 mm	0.23"/5.7 mm	Glass Filled Nylon	Knit Polyester
51125F	15/tube							



SFF High Density Connector Swab

Swab for cleaning high-density Small Form Factor connections

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
38040	500/bag	2.7"/6.9 cm	0.09"/2.3 mm	0.44"/11.2 mm	0.09"/2.4 mm	0.12"/3.0 mm	Polypropylene Flexible Tip	Knit Polyester



SFF Connector Flat Swab

Flat swab provides outstanding particle entrapment



Top View



Side View



38140

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
38140	500/bag	2.7"/6.9 cm	0.09"/2.3 mm	0.48"/12.1 mm	0.06"/1.6 mm	0.12"/3.0 mm	Polypropylene Flexible Tip	Knit Polyester





FWS™ Fusion Splice Wipe

Versatile dry wipe in a convenient hand-sized tub

- Use dry or wetted with preferred cleaning solvent
- Wipes are non-scratching, non-linting, soft and absorbent
- Wipes feature aperture pockets to collect gritty particles
- Compact size ideal for tool kits, cleaning kits and tight work spaces



Applications:

- Fusion splice clean-up
- General precision equipment and workspace clean-up
- Final wiping cable

FSP100DRY 100 wipes per mini-tub
3" x 3" / 7.6 cm x 7.6 cm



Chempad™ Presaturated Wipe

General purpose, presaturated lint-free cleaning wipe

- Contains ultra pure blend of 91% IPA/9% deionized water
- Thick, non-abrasive, wiping pad
- Quickly removes dust, oils and contaminants

CP400 50 single pack presaturated wipes



Electro-Wash® MX Presaturated Wipe

Extra-strength plastic safe universal cleaner with moderate evaporation time

- Cleans all soil types — organic and ionic
- Moderate evaporation rate increases cleaning power
- Leaves no residue
- Presaturated wipe great for toolbox or travel

Applications:

- Ideal for cleaning fiber optics and fiber optic connectors, cables, hard-line coax cable and cable splices

CP421 25 single pack presaturated wipes

Also available in an aerosol — ES1621. See page 3.



Optic Prep™ Presaturated Wipe

Highest quality premoistened lens-grade tissue for cleaning optical surfaces

- Safely cleans and polishes optical surfaces, lenses, fiber optic connectors and instruments
- Compatible with most plastics, glass and metals
- Mild cleaning solution, nonabrasive wipe
- Quickly removes dust, oils and contaminants

CP410 50 single pack presaturated pads



Coventry™ Econowipes™

Low linting, highly absorbent non-woven wipe

- Hydro-entagled 45/55 polyester/cellulose blend
- Low linting
- High absorbency

6704 1200 wipes 4" x 4" / 10.2 cm x 10.2 cm
6704F 100 wipes 4" x 4" / 10.2 cm x 10.2 cm

Sealed Edge Cleanroom Chamois™

Lint-free, highly absorbent polishing wipe

- Woven 50/50 nylon/cellulose microfiber blend
- Snag and tear resistant
- Unique fiber shape entraps particles

7348LE 50 wipes 8" x 8" / 20 cm x 20 cm



Opticwipes™

Soft laboratory-grade cellulose tissue designed for use on optical and other sensitive surfaces

- 100% cellulose
- Highly absorbent; high wet strength
- Noncontaminating
- Solvent resistant
- Low in soluble extractable contamination and particle generation

C920 500 wipes 9" x 9" / 23 cm x 23 cm

FTTH Fiber Optic Cleaning Kits

Fiber-To-The-Home fiber optic cleaning kits

- Perfect for crews performing fusion splice operations, shipping kits to remote locations
- Cleaning supplies necessary for 2.5 mm end-face cleaning and successful fusion splicing
- Use Electro-Wash® PX Universal Cleaner or Electro-Wash® MX to clean the fusion splicer, mirror and V-groove

FTTH Fiber Optic Cleaning Kits Include:

Precision Fiber Optic Cleaner (see below)

- 1 QbE® Cleaning Platform, 200 sheets (QbE)
- 50 2.5mm Foam Fiber Optic Swabs (48042F)
- 50 V-Groove and Ferrule Cleaning Swabs (38542F)
- 15 Fusion Splice Mirror Cleaning Swabs (51125F)
- 100 Lint-Free Precision Wipes, 4"x4" (6704F)
- 5 Electro-Wash® MX Premoistened Wipes (CP421)
- 1 Rugged Bag with carabineer attachment
- 1 Instructions

- CFK1000** 1 FTTH fiber optic cleaning kit with (1) Electro-Wash® PX Universal Cleaner (ES810)



I & M Fiber Optic Cleaning Kits

Fiber optic installation and maintenance cleaning kits

- Cleaning supplies necessary for making a successful 2.5mm fiber optic connection
- MX Precision Cleaner Pens are compact and safe to transport
- Use Electro-Wash® PX Universal Cleaner or Electro-Wash® MX to clean the fusion splicer, mirror and V-groove

I & M Fiber Optic Cleaning Kits Include:

Precision Fiber Optic Cleaner (see below)

- 1 QbE® Cleaning Platform, 200 sheets (QbE)
- 50 2.5mm Foam Fiber Optic Swabs (48042F)
- 100 Lint-Free Precision Wipes, 4"x4" (6704F)
- 5 Electro-Wash® MX Premoistened Wipes (CP421)
- 1 Rugged Bag with carabineer attachment
- 1 Instructions

- CFK1010** 1 I & M fiber optic cleaning kit with (1) Electro-Wash® PX Universal Cleaner (ES810)

- CFK1013** 1 Transportable I & M fiber optic cleaning kit with (2) Fiber-Wash™ MX Precision Cleaner Pens (FW2150)



Shown: CFK1013



FOCCUS™ Ribbon Matrix Removal Kit

Complete patented midspan matrix removal kit

- Includes FOCCUS Matrix Remover with modified delivery system
- Patented "Solvent Capture" process safely removes "matrix" from most ribbon cable in a timed process
- No tools, no cutting
- For up to 300 mid-span insertions

CFK2000 Ribbon Matrix Removal Kit:

- 1 FOCCUS Matrix Remover (F1607)
- 1 Solvent capture binder

FOCCUS™ Compact Cleaning Kit

Convenient on-site fiber optic cleaning kit

CCK1 FOCCUS Compact Cleaning Kit:

- 1 SqR™ Cleaning Platform (SQR)
- 1 Fiber-Wash™ MX Precision Cleaner Pen (FW2150)
- 1 Reclosable package



FOCCUS™ Fiber Optic Cleaning Kit Selection Guide

Cleaners		Cleaning Platforms	Swabs		Wipes			
Electro-Wash® PX Universal Cleaner (E8810)								
FiberWash™ MX Precision Cleaner Pens (FW2150)								
Matrix Remover (F1607)								
QbE® Cleaning Platform (QbE)								
SqR™ Cleaning Platform (SQR)								
2.5mm Foam Fiber Optic Swabs (48042F)								
V-Groove and Ferrule Cleaning Swabs (38542F)								
Fusion Splice Mirror Cleaning Swabs (51125F)								
Lint-Free Precision Wipes, 4"x4" (6704F)								
Electro-Wash® MX Premoistened Wipes (CP421)								
Rugged Bag with Carabineer Attachment								
Reclosable Package								
Instructions								

FOCCUS FTTH Fiber Optic Cleaning Kits

Fiber-To-The-Home fiber optic cleaning kits

CFK1000 FTTH Fiber Optic Cleaning Kit	1		1	50	50	15	100	5	1	1
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FOCCUS I & M Fiber Optic Cleaning Kits

Fiber optic installation and maintenance cleaning kits

CFK1010 I & M fiber optic cleaning kit	1		1	50			100	5	1	1
CFK1013 Transportable I & M fiber optic cleaning kit		2	1	50			100	5	1	1

FOCCUS Compact Cleaning Kit

Convenient on-site fiber optic cleaning kit

CCK1 Compact Cleaning Kit		1	1							1	1
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FOCCUS Ribbon Matrix Removal Kit

Complete patented MidSpan Matrix removal kit

CFK2000 Ribbon Matrix Removal Kit			1							1	1
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CONNECTING AT THE SPEED OF LIGHT™

**Products for Fast, Easy and Reliable
Fiber Optic Connector Cleaning . . .**

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For more information, contact our
Technical Hotline at 770.424.4888 ext 137 or AskChemtronics@chemtronics.com.

Call 800-645-5244 ext. 154 to schedule an in-house evaluation with a local sales representative.



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