



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# CHEMTRONICS®

## Technical Data Sheet

**TDS 2190**

### Fiber-Works™ Fiber-Wash™ Pen Fiber Optic Cleaner

#### PRODUCT DESCRIPTION

Fiber-Works™ Fiber-Wash™ Pen is a one step universal cleaning agent in a convenient pen-type dispenser. Engineered for removing contamination from fiber optic connectors, modules, and cables, this material is specifically designed to be used with the QbE®, QbE®-R, p-QbE® or SqR™ in the wet-to-dry Combination Cleaning process™ (CCp™). Formulated with non-flammable solvents this convenient cleaner is easily transportable and ideal for Central Office, Head End or field service and installation kits.

- Removes a broad range of soils: dust, oils, greases, buffer gel, soils, complex soils, salts and other contaminants
- Non-flammable, non-combustible
- Non-ozone depleting
- Non-HAPS
- Very low global warming potential
- Reduced VOC release
- Dissipates static charge
- Leaves no residues
- Has light clean aroma.
- Non-corrosive
- Safe and easy to transport
- Approximately 125 end face cleanings per pen
- Contains no CFCs, HCFCs, HFE's or HFC's
- Contains no 1,1,1 Trichloroethane

#### TYPICAL APPLICATIONS

Fiber Works™ Fiber-Wash™ Pen cleans:

- UPC and APC 2.5mm SC (types), 1.25mm LC (Types), MT-Type, and all military end face connections
- Handling soils and environmental soils from optical interfaces and back planes in conjunction with Coventry® brand precision swabs
- Contaminants from transmitters, amplifiers and transceivers Buffer gel from connectors and end faces

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Boiling Point</b>	>200°F
<b>Vapor Density (air=1)</b>	>1
<b>Solubility in Water</b>	100%
<b>Specific Gravity (water = 1@77°F)</b>	0.98
<b>Evaporation Rate (butyl acetate=1)</b>	>1
<b>Appearance</b>	Clear, Colorless Liquid
<b>Aroma</b>	Mild
<b>CARB &amp; OTC VOC Content*:</b>	7%
<b>SCAQMD VOC Content**:</b>	85 g/L
<b>Flash Point (TCC)</b>	Non-flammable

\*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

\*\* SCAQMD Rule 1122 compliant

#### COMPATIBILITY

FiberWorks™ Fiber-Wash™ is generally compatible with most materials used in the fiber optics industry. With any cleaning agent compatibility should be determined on a non-critical area prior to use.

#### USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

CCp™ Combination Cleaning Process

- [1] Remove cap to expose pen tip
- [2] Pull a QbE® wipe across the soft platen
- [3] Press pen tip onto a corner of the QbE® wiper surface to dispense a **coin (1") sized** spot of solvent. For standard CCp™ wet-to-dry cleaning no pressure is required to dispense liquid. However, if more liquid is desired, the pen body can be squeezed gently while depressing the tip on a wipe.
- [4] Gently press the fiber optic connector end face onto the wet spot on the wipe and glide it across the wipe into a dry portion.
- [5] Repeat three times without crossing the same area on the wipe.
- [6] For APC connections, tilt the jumper or tilt the QbE® box to find the angle where the end face makes full contact with the wiper. This is apparent when the end face glides with little resistance.



- [7] When moistening a precision swab for back plane cleaning, hold the swab tip in the 1" spot of cleaner for a count of 1-2-3-4-5 (about 5 seconds). Insert the swab and rotate the hand three times. Follow up with a dry swab.

**AVAILABILITY**

FW2190

5g / 0.2 oz pen

**TECHNICAL & APPLICATION ASSISTANCE**

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

ENVIRONMENTAL IMPACT DATA			
HCFC-141b	None	HFC	None
HCFC-225	None	nPB	None

Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. HCFC-141b is no longer produced in the US under this legislation. HCFC-225 is planned for production phase-out in 2015. Hydrofluorocarbons (HFCs) are not currently regulated. EPA has listed n-propyl bromide (nPB) as an acceptable alternative to ozone depleting substances in metal, precision, and electronics cleaning under Section 612 of the Clean Air Act.

**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. ITW CHEMTRONICS® does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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