

## 69-21 Sterisil PureTube BR Cartridge (Project 03-01) (7/03)

For **UPDATE**, [click here](#).

Sterisil's PureTube BR is a continuous water treatment system designed to reduce microorganism concentration in dental unit waterlines below the American Dental Association (ADA) goal (i.e., 200 CFU/ml or less) for water quality. The PureTube BR cartridge is designed for use with independent water reservoir systems. The cartridge attaches to the existing fittings (i.e., 1/8" or 1/4" tubing) within the dental unit's independent water reservoir. The manufacturer claims the PureTube BR cartridge purifies dental unit water by releasing ionized colloidal silver continuously for 90 days or 60 liters of water, whichever comes first. This process reduces microorganisms in water supplied from an independent water reservoir resulting in dental unit water meeting or exceeding the ADA recommendation. Distilled water or high quality tap water is recommended for use in the independent water reservoir. Initial treatment of the waterlines with the ShockTube SKB for one week is recommended to deactivate existing biofilm. Ozonated water or tap water exceeding 10 grains of hardness should not be used because it will interfere with the product's function. The manufacturer recommends continuation of recommended flushing protocols (e.g., 20-30 second flush of handpieces, ultrasonic scalers, air/water syringe after each patient) and periodic sterilization of the independent water reservoir when using the PureTube BR cartridge.

### Manufacturer:

Sterisil  
200 South Wilcox #417  
Castle Rock, CO 80104  
(877) 755-PURE  
(719) 481-0937  
(719) 481-0349 FAX  
[www.sterisil.com](http://www.sterisil.com)

### Suggested Retail Price:

ShockTube SKB (bottle) \$25.00  
PureTube BR (bottle) \$129.00

### Government Price:

ShockTube SKB (bottle) \$13.75  
PureTube BR (bottle) \$70.95

### ADVANTAGES:

- + Produced water meeting or exceeding current ADA recommendations (i.e., < 200 CFU/ml).
- + More time efficient when compared with other waterline treatment procedures.
- + No need for weekly waterline treatment procedures.
- + Simple technique: minimizes technician compliance.
- + No mixing or dilution required.
- + Minimal maintenance.
- + Less likely to damage dental unit components than bleach.
- + Easily installed on units with an independent water reservoir.
- + User-friendly instructions.
- + No offensive odor or taste noted.
- + No clogging of dental unit waterlines or signs of residue noted.
- + Includes replacement reminder label.
- + No special disposal requirements for the used cartridge.

### DISADVANTAGES:

- More expensive than diluted bleach.
- Not recommended for use with ozonated water or tap water exceeding 10 grains of hardness.
- Manufacturer recommends periodic sterilization of the independent water reservoir.

**SUMMARY AND CONCLUSIONS:**

The PureTube BR continuous water treatment system was found to be easy to install and use. All evaluators rated the product "excellent" overall. During the 12-week evaluation period, all dental water samples met the ADA recommendation of 200 CFU/ml or less. The PureTube BR water treatment system is non-corrosive, reducing the likelihood of damage to the dental unit when compared with using diluted bleach. The manufacturer recommends changing the PureTube BR cartridge every 90 days or 60 liters of water, whichever comes first. This eliminates the need for weekly waterline treatment, minimizes technician compliance, and results in considerable time savings. The PureTube BR cartridge is rated Recommended for use by the federal dental services.

**UPDATE**

Since the completion of this evaluation, Sterisil introduced an improved version of the PureTube BR continuous water treatment system. The PureTube BR360 is packaged with an antimicrobial coated water bottle, which eliminates the need for periodic sterilization of the water reservoir. Sterisil claims the PureTube BR360 and antimicrobial bottle will last for 1 year of service with the use of distilled water. The PureTube BR360 cartridge and antimicrobial coated bottle are available for \$340.00 (retail) and \$187.00 (government).

**UPDATE**

In May 2008, Sterisil Inc. informed DECS of several updates—see below.

**Manufacturer Contact Info:**

Sterisil, Inc.  
 835 S. Highway 105  
 Suite D  
 Palmer Lake, CO 80133

**PureTube, Point-of-Use Disposable Waterline Treatment Products**

Item #	Product	Suggested Retail Price	Govt Price
BR360	360-Day PureTube	\$125.00	\$81.25
BR360BF	360-Day PureTube and BioFree Bottle	\$147.00	\$95.55
BR90	90-Day PureTube	\$79.00	\$51.35
BF360	BioFree Bottle	\$22.00	\$14.30

[Click here](#) for updated product information.