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## Xenolite Apron Care

### Instructions for Apron Cleaning and Disinfection

#### Cleaning

- Most dirt and water-soluble stains, including blood, other body fluids and barium contrast media, can be removed using mild household dish washing liquid-type soaps/detergents (eg "Palmolive", "Dove" etc.) in diluted form in cold water.
- These are best applied by wiping the apron fabric with a cloth or disposable wipe dampened with this aqueous cleaner.
- For stubborn marks, especially congealed barium contrast medium on a woven surface, the use of a soft scrubbing brush is recommended, using mild detergent liquid.
- For other proprietary cleaners, including combined cleaning/disinfecting agents, **avoid the use of alcohol or alcohol-based agents**, especially IPA/ethanol, and harsh caustic- or phosphate-based agents.
- Quaternary ammonium cleaners/disinfectants (QATS) are recommended, provided they are substantially alcohol-free and made up in dilute water-based forms. Follow manufacturer's instructions for make-up/ dilution.
- In all cases, the fabric surface should be wiped, rinsed with a water- dampened cloth, and then wiped dry.
- **Do not machine-wash. Do not use warm or hot water. Do not machine-dry. Do not iron.**
- **Avoid bleach (chlorine or peroxide) as this will discolor and damage fabrics, edge binding and sewing thread. Avoid the use of alcohol of alcohol-based products.**

#### Iodine stains (Betadine, Povidine)

- Iodine stains are the most difficult to clean and are best cleaned as soon as possible. Aqueous proprietary iodine cleaners, using sodium thiosulfate to oxidize out the color, should be used.
- Alcohol-free "Betanett" from Alkapharm is recommended in France (info@alkapharm.fr, Romainville, FR), and is available in a spray bottle.
- "Fade-A-Dyne", a USA equivalent (Russ Medical, NC, USA) which contains aggressive acetone and IPA is NOT recommended.
- In application, do not spray the iodine cleaner directly on the surface of the apron; it is better if the iodine cleaner is first sprayed on a cloth and wiped on the stain.
- In all cases, the fabric surface should be wiped and rinsed with a water-dampened cloth and then wiped dry.

## Disinfection

- All XENOLITE fabrics may be disinfected with water-based QAT (quaternary ammonium-based) cleaning/ disinfecting agents or certain “active oxygen” disinfectants. A list of approved QAT’s and other disinfectants follows.
- Information regarding specific bacterial, fungal and viricidal efficacy, required dilutions, preparation, and time can be obtained from the manufacturers’ websites.
- As with cleaning, the preferred procedure is to use a cloth, or a disposable wipe dampened with the disinfectant.
- If a lengthier time is required for bacterial kill, the cloth or wipe may be left in contact for the required period.
- In all cases, the fabric surface should be wiped and rinsed with a water-dampened cloth or disposable wipe and then allowed to dry.
- **Do not autoclave or use gamma irradiation for sterilizing. Contact Lite Tech for unusual ETO/gas sterilizing limits (long cycle, < 110 F).**

### List of approved QAT or active oxygen proprietary disinfectants/cleaners (USA/Europe/global)

- "PDI Sani-Cloth AF3 Germicidal Disposable Wipe"
- “Clorox Pro Quaternary All-purpose Disinfectant 30182, CLO 30423”
- “Decon BDD Bacdown” (Decon Labs USA)
- “Fiberlock IAQ 2000” Fiberlock Technologies (USA)
- “Antifect FF” at dilution < 2% Schulke & Mayr, DE
- “Terralin Protect” at max 2% Schulke DE; avoid use of Terralin liquid and Terralin PAA
- “Terralin Perform” Schulke DE (active oxygen)
- “Lysol IC Quaternary Disinfectant” Reckitt Benckiser
- Medtrol “CTW”, CTG 175, 140 Clini-Tech

If you need other help determining other cleaning and disinfecting agents, please contact us and we will be happy to check compatibility.