

MICROBIOLOGICAL ASSAY SLIDES - BF

PRODUCT APPLICATION

Excessive microbiological growth in recirculating cooling water systems can adversely affect operating results by restricting water flows, reducing heat transfer rates, initiating underdeposit and acid corrosion attack and promoting wood deterioration. Obviously, unless properly controlled, microbiological contamination can quickly compromise the design efficiency of an otherwise well-maintained cooling water system.

The Jamestown Microbiological Assay Slides are a field test procedure designed to provide system operators with a quick, reliable and extremely accurate method for measuring the total bacterial and fungal levels in the recirculating water. As dependable testing conducted on a regular basis maximizes control of the microbiological treatment program, use of the assay slides assures that operating problems are avoided and program costs are held in line.

PRODUCT DESCRIPTION

The Microbiological Assay Slides are packaged ten to a box and are stored and incubated in individual clear plastic bottles. The slides, which are coated on each side with a solid culture medium, are attached to the bottle cap; a device which also doubles as a convenient handle, minimizing instances of agar contamination. Furthermore, unlike many alternate single function tests, the Jamestown Microbiological Assay Slides can be used to determine both bacterial and fungal counts.

PRODUCT INSTRUCTION

1. Unscrew the cap and remove the slide from the vial. Be careful not to touch either of the slide's surfaces.
2. Immerse the slide into the fluid sample for 2-3 seconds so that both surfaces are covered with the liquid.
3. Allow excess fluid to drain from the slide by touching the tip to an absorbent piece of paper towel.
4. Replace the slide into the vial and secure the cap. Again, be careful not to touch either of the slide's surfaces.
5. Incubate the Microbiological Assay Slides in an upright position between 25°-30°C (75°-85° F) for a period of 24-36 hours.
 - At that time, bacterial counts can be taken.
 - Heavy fungal growths can be read after 36 hours.
 - Sparse fungal growths, however, may require up to five days of incubation to obtain accurate results.
6. After the recommended incubation period, compare growth on the slide to the conversion chart located on the reverse side of this page to obtain a quantitative interpretation of the results.

PRECAUTIONS

1. As the slides will be deactivated if subjected to either extremely hot or cold conditions, please store vials between 4°-25°C (40°-75°F).
2. Do not use slides past indicated expiration date.

MICROASSAY SLIDE CONVERSION CHART

Bacteria/ml



10^3



10^4



10^5



10^6



10^7

Fungi (Yeast and Mold)/ml



10^1



10^2



10^3



10^4



10^5