

Fixate™ G-100 PR Polymer Microbiological Summary

Fixate™ G-100 PR polymer has been tested for Preservative Efficacy (Challenge Testing) using a “Mixed Inoculum Preservative Efficacy Test” protocol. The polymer passes the standard challenge test using this test method.

The organisms used in the preservative efficacy testing were the following:

1. Staphylococcus aureus ATCC 6538
2. Escherichia coli ATCC 8739
3. Pseudomonas aeruginosa ATCC 9027
4. Burkholderia cepacia ATCC 25416
5. Candida albicans ATCC 10231
6. Aspergillus niger ATCC 16404

The preservative efficacy for the product was evaluated according to the following criteria:

Bacteria: Not less than a 2.0 log reduction from the initial calculated at 14 days, and; no increase from the 14 day count at 28 days.

Yeast and Mold: No increase in the initial calculated count at 14 and 28 days.

(No increase is defined as not more than 0.5 log₁₀ units higher than the previous value.)

Fixate G-100 PR polymer met the above preservative efficacy criteria.

Fixate G-100 PR polymer, when used in a formulated system, does not promote or prevent microbial growth. We recommend normal microbial testing of your finished product.

Lubrizol Advanced Materials, Inc. / 9911 Brecksville Road, Cleveland, Ohio 44141-3247 / TEL: 800.379.5389 or 216.447.5000

The information contained herein is being furnished for informational purposes only, upon the express condition that the User makes its own assessment of the appropriate use of such information. While the information contained herein is believed to be reliable, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for a particular application or the results to be obtained herefrom. Lubrizol Advanced Materials, Inc. (“Lubrizol”) cannot guarantee how any products associated with this information will perform in

combination with other substances or in the User’s process. Due to variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the information or products for the applications disclosed. Lubrizol shall not be liable and the User assumes all risk and responsibility for any use or handling of any material beyond Lubrizol’s direct control. LUBRIZOL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,

THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is the User’s sole responsibility to determine if there are any issues relating to patent infringement of any component or combination of components relating to the supplied information. **Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.**

For further information, please visit: www.lubrizol.com/personalcare