



Performance

# Zemea<sup>®</sup> General Purpose Carpet and Rug Cleaner

Performance Evaluation

## **Performance Evaluation**

Stain removal of a Zemea® propanediol carpet & rug cleaner formulation and a similar propylene glycol carpet & rug cleaner formulation were tested using a stained carpet test specimen. The standard staining agents were applied by an independent professional testing laboratory. Each stain was individually cleaned and evaluated for stain removal efficiency by CovationBio PDO.

#### **Physical Properties**

8
7
5.71
Water Thin
Pass
Pass

## Conclusion

Zemea® propanediol can be successfully substituted for glycols in a carpet and rug cleaner.

Zemea® propanediol formulations demonstrated comparable physical and performance (including soil and stain removal) properties.

Zemea® propanediol formulations were stable to freeze/ thaw and evelated temperature storage.

#### **Staining Agents**

- Mustard
- Ketchup
- · Hot Coffee
- Black Permanent Ink
- Dirty Motor Oil
- Purple Grape Juice
- Chocolate Syrup
- AATCC Synthetic Soil

## COVATION BIO PDO

For additional information or samples, please contact Customer Service.

198 Blair Bend Drive, Loudon, TN 37774 | Tel: +1-866-404-7933 | CovationBioPDO.com

Zemea\* is a registered trademark of Primient Covation LLC for its brand of bio-based propanediol marketed under the name CovationBio<sup>®</sup> PDO. Copyright © 2023 Primient Covation LLC. All rights reserved. (2/24)

This technical product information is presented in good faith and is believed to be accurate and reliable as of the date of publication. Primient Covation LLC makes no guarantee or warranty of any kind, expressed or implied, regarding the product or information contained herein. Purchaser assumes all risk and liability in acting on the information provided herein. It is the sole responsibility of the Purchaser to determine whether Zemea<sup>®</sup> propanediol is appropriate and suitable for the Purchaser's specific use and, as required, to obtain approval by appropriate regulators, authorities for such use. Statements concerning the use of Zemea<sup>®</sup> propanediol are not to be construed as recommendations, suggestions, or inducements to use if in the infringement of any patent or in violation of any applicable laws or regulations. Primient Covation LLC disclaims any liability for infringement of any patent by reason of customer's use of any products or information contained herein in combination with other materials or in any process.