



Zemea[®] General Purpose Carpet and Rug Cleaner

Performance Evaluation

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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

pH, 100%	8
pH, 10%	7
Viscosity, cPs @ 200°C.	5.71
Viscosity	Water Thin
Freeze/Thaw Stability (-150°/200°C)	Pass
Heat Stability (500°C), 30 days	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
- Hot Coffee
- Black Permanent Ink
- Dirty Motor Oil
- Ketchup
- Purple Grape Juice
- Chocolate Syrup
- AATCC Synthetic Soil