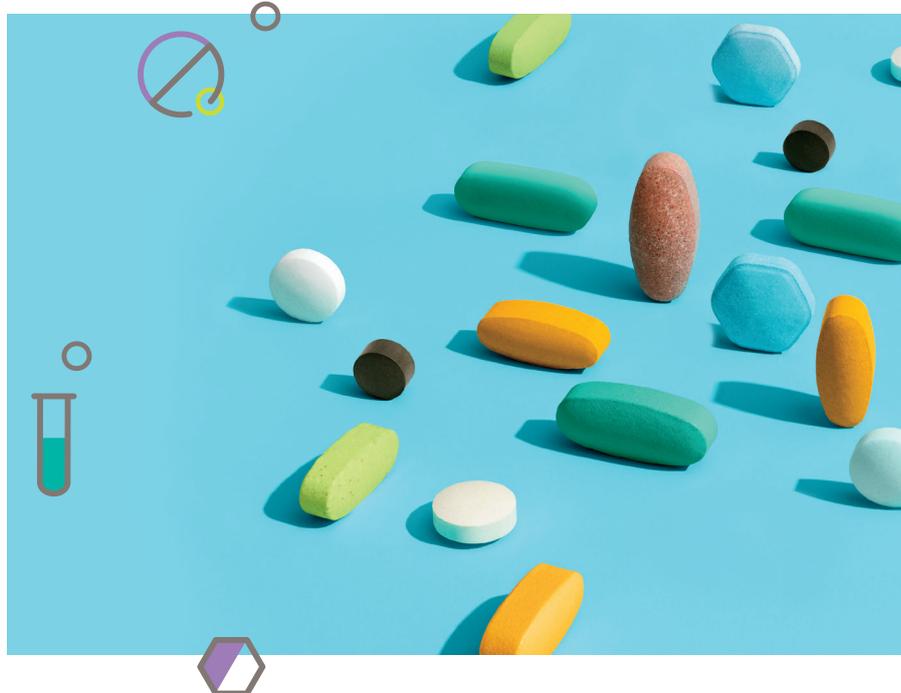


aquarius™ protect film coating systems

reduce moisture uptake and mask against offensive taste and odor

key features and benefits

- superior barrier protection for use in dietary supplements looking to prevent black spots in multivitamins
- very effective under environmental conditions defined as zones 4 & 5 by stability guidelines
- can be processed at low temperatures and provide energy savings



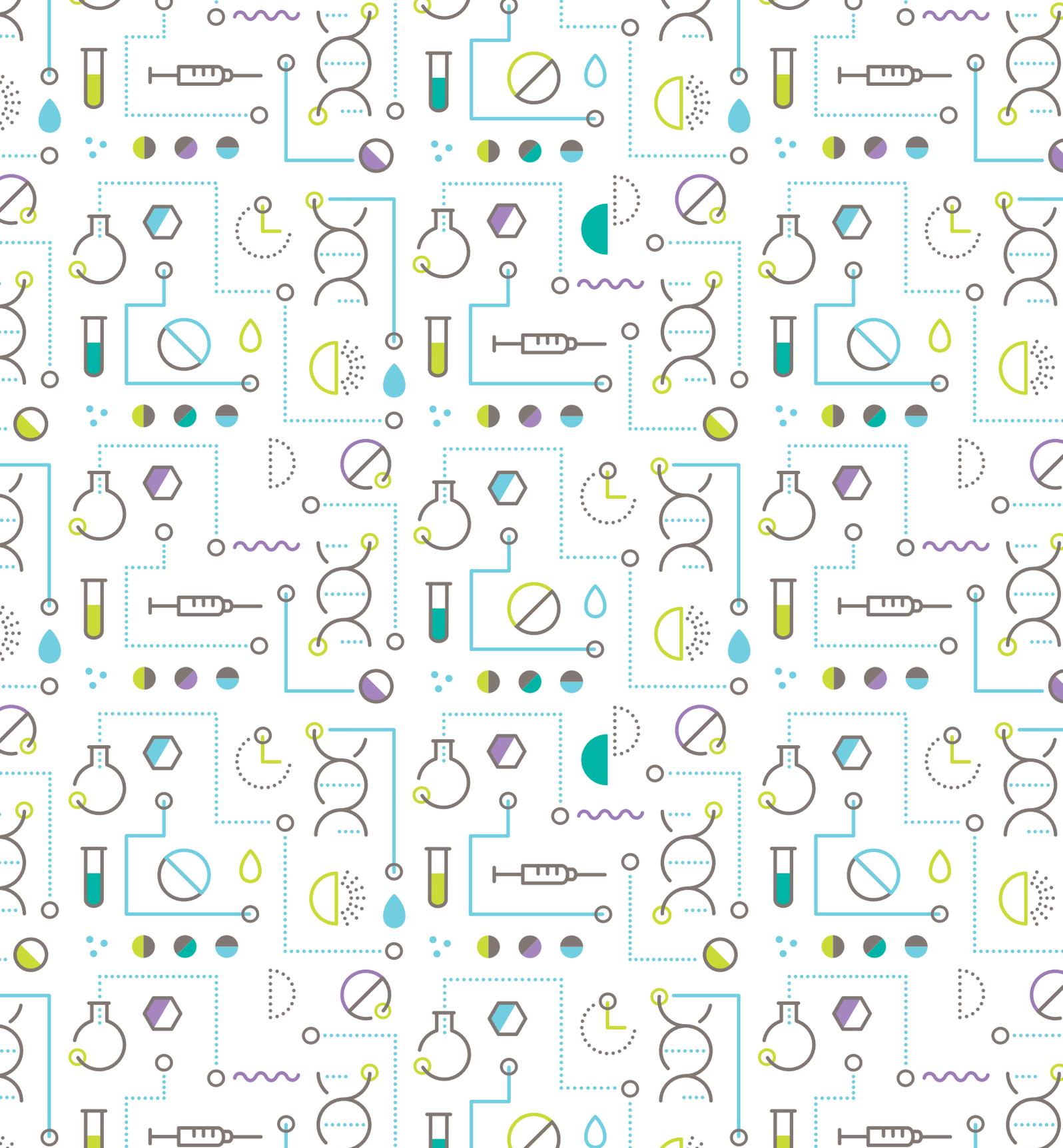
description

Aquarius™ Protect is the premium multi-functional barrier coating system that effectively reduces moisture uptake and masks against offensive taste and odor.

Aquarius™ Protect multifunctional coating systems are fully formulated, ready-mixed systems that disperse quickly in water or other solvents. Clear coatings can be sprayed at 10–12% solids, and white and colors can be sprayed up to 20% solids while remaining non-tacky and achieving significant process savings. These coating systems, composed of cellulose derivatives and a natural wax blend, provide superior barrier properties, and efficient processing and flexibility without compromising drug release.

Aquarius™ Protect MB is a fully formulated, ready to mix, high solids moisture barrier coating based on polyvinyl alcohol (PVA). In addition to improved productivity from high solids and low viscosity, these coating systems provide attractive glossy appearance and clear crisp logos. To reduce impurity concerns, this system was developed without polyethylene glycol (PEG).

Aquarius™ Protect and Protect MB film coating systems have easy and efficient application using standard spray equipment and process conditions. All ingredients have FDA and EU direct food additive and/or Generally Recognized as Safe (GRAS) status. Compliance for specific formulations is listed on the certificate of analysis.



regional centers

North America
Wilmington, DE USA
Tel: +1 877 546 2782

Europe
Switzerland
Tel: +41 52 560 55 00

India
Maharashtra
Tel: +91 22 61489696

Asia Pacific
Singapore
Tel: +65 6775 5366

Middle East, Africa
Istanbul, Turkey
Tel: +00 90 216 538 08 00

Latin America
Mexico
Tel: +52 55 52 76 6121

ashland.com/contact

® Registered trademark, Ashland or its subsidiaries, registered in various countries

™ Trademark, Ashland or its subsidiaries, registered in various countries

© 2019, Ashland / PHA20-105

The information contained in this brochure and the various products described are intended for use only by persons having technical skill and at their own discretion and risk after they have performed necessary technical investigations, tests and evaluations of the products and their uses. Certain end uses of these products may be regulated pursuant to rules or regulations governing medical devices, drug uses, or pesticidal or antimicrobial uses. It is the end user's responsibility to determine the applicability of such regulations to its products.

All statements, information, and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee of fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility. No freedom to use any patent owned by Ashland, its subsidiaries, or its suppliers is to be inferred.

