



SZG-PDS-NA-Ultra-pHase-R2

Ultra-pHase™ sizing agent

Product Description

Ultra-pHase™ sizing agent is a cationic dispersed size and is a highly efficient product for the sizing of paper and paperboard. It can be utilized over a wide papermaking pH range (4.0 to 7.5) and offers a high degree of system flexibility.

Generally, production of paper and paperboard in a near-neutral pH range results in improved strength, reduced alum consumption, and lower levels of equipment corrosion. Enhanced sheet properties offer the papermaker various options, such as elimination of chemical dry-strength additives, utilization of weaker and/or lower cost fiber, or changes in pulp refining, which can provide higher production rates.

Product Application

Ultra-pHase will function effectively in systems containing some calcium carbonate, whether the broke is introduced as CaCO₃ coated or filled, or a whitewater component from adjacent machines making alkaline paper. Because of its cationic nature, Ultra-pHase cationic dispersed size is self-retaining and can enhance retention of fillers, fibers, and dyes in the papermaking system. Also, Ultra-pHase functions well at higher papermaking pH's where alum and alkalinity form hydroxy alumina species. The formation of hydroxy alumina species can significantly improve retention of fines, fillers, and wet-end additives. Less alum is required than with other types of emulsion size, and good efficiency is obtained with as little as 4 to 8 lb/ton.

Ultra-pHase cationic dispersed size is a very stable dispersion that can be metered easily with or without dilution. It can be premixed or added simultaneously with alum to simplify addition sequencing.

Ultra-pHase is to be used in accordance with control procedures Solenis establishes for a specific application.

Benefits

- Flexibility to increase wet end pH
- Increased sheet strength vs. fluid rosin size

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Important Information

Typical Properties: Refer to the Safety Data Sheet (SDS).

Regulatory Information: Refer to the SDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.