

VINNAPAS[®] EP 907



Polymer Dispersions

VINNAPAS[®] EP 907 is a vinyl acetate/ethylene based dispersion engineered for nonwoven applications requiring break down and re-dispersion in water. Substrates bound with VINNAPAS[®] EP 907 exhibit good dry tensile strength but essentially disintegrate when exposed to water.

Properties

VINNAPAS[®] EP 907 may be used as a binder in nonwoven applications where stiff hand and dry tensile properties are required. When placed in water and agitated, substrates bound with VINNAPAS[®] EP 907 break down and disperse into smaller fragment of individual fibers. The dispersion is stabilized with an APEO free surfactant system and has a low formaldehyde level of less than 50 ppm.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	54.0 - 56.0 %	specific method
Viscosity, dynamic	25 °C	1800 - 2700 mPa·s	specific method
pH	-	4.0 - 5.0	specific method

General Characteristics

Property	Condition	Value	Method
Density	-	1.05 g/cm ³	specific method
Frost resistance	-	protect from freezing	specific method
Glass transition temperature	-	approx. 17 °C	DSC, specific method
Mechanical stability	-	Excellent	specific method
Water resistance	-	poor - fair	specific method

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Dry Wipes & Industrial Wipes

Application details

VINNAPAS® EP 907 can be diluted with water prior to substrate application. Other additives can then be added under good agitation although Boron containing products may cause the product to gel. Surfactants can also be added to VINNAPAS® EP 907 to improve penetration of the binder into the substrate and improve absorbency of the finished product. Effective surfactant levels are 0.5 to 1.0% on dispersion solids.

VINNAPAS® EP 907 can be applied by a number of different application methods including saturation, spraying, foaming and print bonding. VINNAPAS® EP 907 performs well on various fiber types including cellulose, rayon, glass, and polyester based substrates. This dispersion is especially suited for use in dry wipe absorbent products. Due to the dispersion's nonionic particle charge, VINNAPAS® EP 907 exhibits good compatibility with most cationic and anionic additives.

Additional information

If the product is used in applications other than those mentioned, the choice, processing and use of the product is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

For questions concerning food contact status according the chapter 21 CFR (US FDA) and German BfR, please feel free to contact us.

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Packaging and storage

Storage

When the dispersion is stored in tanks, proper storage conditions must be maintained. If stored in the original, unopened containers at cool (below 30 °C), but frost-free temperatures the product has a shelf life of 9 months from the date of manufacture. Any longer periods for the maximum storage period that may be described in the Certificate of Analysis which accompanies each shipment of the product, take preference over this suggestion in which case the time period stated in the Certificate of Analysis shall be solely authoritative. Iron or galvanized-iron equipment and containers are not recommended because the dispersion is slightly acidic. Corrosion may result in discoloration of the dispersion or its blends when further processed. Therefore, the use of containers and equipment made of ceramics, rubberized or enameled materials, appropriately finished stainless steel, or plastic (e.g. rigid PVC, polyethylene or polyester resin) is recommended. As polymer dispersions may tend to superficial film formation, skins or lumps may form during storage or transportation. Filtration is therefore recommended prior to utilization of the product.

Preservation for Transport, Storage and further Processing

The product is adequately preserved during transportation and storage if kept in the original, unopened containers. However, if it is transferred to storage tanks, the dispersion should be protected against microbial attack by adding a suitable preservative package. To maintain proper storage conditions appropriate measures should also be taken to ensure cleanliness of the tanks and pipes. In a storage tank in which the product is not stirred, it is advisable to contact your biocide representative/supplier. Proper procedures must be set up in order to prevent microbial attack between necessary periodic tank cleaning and sanitization. These procedures will vary, since loading and unloading practices in each storage situation will differ slightly. Finished products manufactured from polymer dispersions usually also require preservation. The type and scope of preservation will depend on the raw materials used and the anticipated sources of contamination. The compatibility with other components and the efficacy of the preservative should always be tested in the respective formulation. Preservative manufacturers will be able to advise you about the type and dosage of preservative required.

Safety notes

Comprehensive instructions are given in the appropriate Material Safety Data Sheets. These are available on request from WACKER sales offices.

QR Code VINNAPAS® EP 907



For technical, quality or product safety questions, please contact:

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