VINNAPAS® EN 1267

Polymer Dispersions

VINNAPAS® EN 1267 is an aqueous, self-crosslinking copolymer dispersion of vinyl acetate and ethylene. It is surfactant stabilized and is made with no APEO materials being added intentionally. It is particularly suited as a soft binder for nonwoven applications requiring wet tensile strength performance.

Properties

- VINNAPAS® EN 1267 may be used as a binder in nonwoven applications where soft hand and wet tensile properties are required.
- The dispersion is stabilized without using APEO materials and has a low formaldehyde level of less than 100 ppm.

Technical data

Specification

Property	Condition	Value	Method
Solids content	-	51.0 - 53.0 %	specific method
Viscosity, dynamic	25 °C	50 - 450 mPa·s	specific method
pH	-	4.5 - 5.5	specific method

General Characteristics

Property	Condition	Value	Method
Content Formaldehyde	-	< 100 ppm	specific method
Density	-	1.06 g/cm^3	specific method
Frost resistance	-	protect from freezing	specific method
Protective colloid / emulsifier system	-	surfactants	-
Glass transition temperature	-	approx. -15 °C	DSC, specific method
Appearance	-	white fluid dispersion	specific method
Mechanical stability	-	excellent	specific method
Particle charge	-	anionic	specific method

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

Applications

- Tabletop Nonwovens
- Textile Printing
- Wet Wipes

Application details

VINNAPAS® EN 1267 can be applied by a number of different application methods including saturation, spraying, foaming and print bonding. VINNAPAS® EN 1267 performs well on various fiber types including cellulose, rayon, glass, and polyester based substrates. This dispersion is especially suited for use in absorbent products and pre-moistened wipes.

Processing
Formulating recommendations include the addition of catalyst and a wetting surfactant. Catalysts should be added to the dispersion as a 10% solution under good agitation. Typical catalysts include ammonium chloride or sodium bisulfate. A 1% catalyst level (solids on solids dispersion) is sufficient to achieve complete crosslinking of the polymer. Surfactants can also be added to VINNAPAS® EN 1267 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.

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 corresponding Material Safety Data Sheets. These are available on request from WACKER sales offices or may be downloaded from the WACKER Web site www.wacker.com/vinnapas.

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

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