

The Specialties Department of R.T. Vanderbilt Company, Inc. markets a range of products that are used extensively in the personal products, pharmaceutical, household and institutional, and agricultural industries. This brochure provides general information about the products we supply. Detailed technical information on our products is available on request.

SMECTITE CLAY SUSPENDING AGENTS/ EMULSION STABILIZER/THICKENER

VANATURAL® Bentonite Clay, **VEEGUM**® Magnesium Aluminum Silicate and **VAN GEL**® Mineral Thickener are natural smectite clays that have been water-washed to enhance purity and performance. These clays are used as emulsion stabilizers, suspending agents and viscosity modifiers. They are supplied as insoluble fine granules that form a colloidal dispersion in water.

PHARMACEUTICAL & COSMETIC GRADES

VEEGUM General purpose grade; for all types of personal care, pharmaceutical, veterinary and industrial products.

VEEGUM F Micronized product; for tablets and pressed powders.

VEEGUM HV Higher viscosity grade; functionality similar to VEEGUM.

VEEGUM K High acid and electrolyte compatibility; widely used in oral pharmaceutical suspensions.

VEEGUM HS Highest electrolyte stability, minimum acid demand.

COSMETIC GRADES

VANATURAL Fast hydrating bentonite; emulsion and suspension stabilizer

VEEGUM Ultra Quickest hydration; uniquely white, acidic dispersions; for skin-pH topicals.

VEEGUM Pure Specially processed for the organic and natural personal products industry.

VEEGUM Plus High thickening and suspending efficiency; easy to hydrate; white dispersions; for color cosmetics.

VEEGUM D Fast hydration; emulsion and suspension stabilizer.

VEEGUM PRO Modified for highest thickening and stabilizing efficiency; for emulsions, skin and hair cleansers.

INDUSTRIAL GRADES

VAN GEL B General purpose grade; for most household, institutional and agricultural applications.

VAN GEL C High alkali stability; for oven cleaners and other alkaline systems.

VAN GEL ES Highest electrolyte stability; for cleaners and cleansers.

VAN GEL O Stable in hypochlorite-containing formulas; for bleach cleaners.

VEEGUM T High thickening efficiency and alkali stability; for oven cleaners and other alkaline systems.

XANTHAN GUM SUSPENDING AGENT/ EMULSION STABILIZER/THICKENER

VANZAN® xanthan gum provides a unique combination of thickening and stabilizing efficiency over a broad spectrum of temperature, pH and electrolyte content.

PHARMACEUTICAL & COSMETIC GRADES

VANZAN NF General purpose grade; for most personal care and pharmaceutical uses.

VANZAN NF-F Fine-ground powder; for dry mix powders and tablets.

VANZAN NF-C Clear solution grade; for applications in which transparency is required, i.e. gels and syrups.

INDUSTRIAL GRADES

VANZAN General purpose grade; for most household, institutional and agricultural applications.

VANZAN D Surface-treated for easy dispersion; rapid viscosity after pH adjustment without lumps or "fish-eyes".

DISPERSING AGENTS

DARVAN® dispersing agent products are used to disperse finely divided solids and keep them dispersed in aqueous media.

COSMETIC GRADES

DARVAN 1 Spray Dried Sodium salts of polymerized alkyl naphthalene sulfonic acid granules.

DARVAN 7-N Sodium polymethacrylate solution.

AGRICULTURAL GRADES

DARVAN 1 Spray Dried Sodium salts of polymerized alkyl naphthalene sulfonic acid granules.

DARVAN 2 Sodium lignosulfonate powder.

DARVAN 670 Sodium salts of polymerized alkyl naphthalene sulfonic acid powder.

INDUSTRIAL GRADES

DARVAN 9 Sodium salts of polymerized alkyl naphthalene sulfonic acid powder.

DARVAN 7-NS Sodium polymethacrylate powder.

DARVAN CN Ammonium polymethacrylate solution

DARVAN 811 Sodium polyacrylate solution.

DARVAN 821A Ammonium polyacrylate solution.

INDUSTRIAL BACTERICIDES/FUNGICIDES

The **VANCIDE**® product line consists of industrial bactericides and fungicides.

VANCIDE 51 - Sodium dimethyldithiocarbamate and sodium 2-mercaptobenzothiazole supplied as a 30% aqueous solution. It is an industrial bactericide/fungicide for textiles and adhesives, notably starch adhesives.

VANCIDE 89 - -trichloromethylthio-4-cyclohexene-2,2-dicarbox-imide. It is a technical grade of Captan used as an industrial preservative, a wallpaper adhesive preservative and a fungicide for polymers.

VANCIDE TH - Hexahydro-1,3,5-triethyl-s-triazine. It is an industrial preservative which prevents bacterial degradation of cutting oils, synthetic rubber latex, starch-based adhesives, latex paint and aqueous slurries. It is soluble in acetone, ethyl alcohol, ether and water, and moderately soluble in hydrocarbon solvents.

VANCIDE MZ-96 - a wettable powder of Ziram. It is used to preserve starch and synthetic latex adhesive formulations against microbial degradation. It is also used in joint compounds for drywall construction.

OXIDATION/CORROSION INHIBITORS

NACAP® Corrosion Inhibitor is an aqueous solution of sodium 2-mercapto-benzothiazole used to prevent the corrosion of copper and brass, particularly in antifreeze. It also prevents the corrosion of aluminum when this metal occurs in the same system with copper and its alloys.

VANCHEM NATD™ corrosion inhibitor is 30% aqueous disodium dimercaptothiadiazole; it is a corrosion inhibitor and metal deactivator for nonferrous metals in aqueous systems.

MINERAL FILLERS

CONTINENTAL® Clay is an agricultural grade of sedimentary kaolin with an unusually fine particle size. Suspensions of **CONTINENTAL Clay** settle slowly and readily disperse when shaken. This clay is nonabrasive and non-alkaline and is compatible with commonly used agricultural wetting and dispersing agents.

PEERLESS® Clay kaolin is used in adhesives, wallboard, paint, paper, fertilizer, roofing granules, crayons and powdered soaps.

PYRAX® pyrophyllite is used as a dry diluent or carrier in agricultural and pesticide formulas. It is also used in water-based paints, drywall plasters, and as a filler in plastics.

	<u>Median</u> Particle Size	<u>Oil</u> Absorption
PYRAX B	10 µm	26
PYRAX WA	14 µm	24
PYRAX ABB	11 µm	24

The Specialties Department
of
R.T. Vanderbilt Company, Inc.
supplies quality products
to the

following industries:

COSMETICS-PHARMACEUTICALS-
PERSONAL CARE

Rheology • Suspending • Stabilization

HOUSEHOLD & INDUSTRIAL

Rheology • Suspending • Stabilization

Biocides • Mineral Fillers

Corrosion Inhibitors

AGRI-SCIENCE

Suspending • Stabilization

Mineral Fillers

Please contact us for further information on the products described in this brochure. Samples and Technical Data Sheets are available on request.

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INDUSTRIAL MINERALS AND CHEMICALS

Before using, read, understand and comply with the information and precautions in the Material Safety Data Sheets, label and other product literature. The information presented herein, while not guaranteed, was prepared by technical personnel and, to the best of our knowledge and belief, is true and accurate as of the date hereof. No warranty, representation or guarantee, express or implied, is made regarding accuracy, performance, stability, reliability or use. This information is not intended to be all-inclusive, because the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. The user is responsible for determining the suitability of any material for a specific purpose and for adopting such safety precautions as may be required. R.T. Vanderbilt Company, Inc. does not warrant the results to be obtained in using any material, and disclaims all liability with respect to the use, handling or further processing of any such material. No suggestion for use is intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patent, trademark or copyright or to violate any federal, state or local law or regulation.

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