

Organic Thickeners for Aqueous Systems

VANZAN[®] Xanthan Gum (anionic polysaccharide) is produced from the fermentation of carbohydrates by the microorganism *xanthomomas campestris*. It is supplied as a creamy-white powder that forms pseudoplastic colloidal solutions in water and is insoluble in most organic liquids. **VANZAN** has exceptional thickening, suspending and stabilizing properties in the presence of acids, bases and salts, and at elevated temperatures. The grades used in coating applications are **VANZAN** and **VANZAN D**. **VANZAN D** is a surface treated grade that provides easy dispersion with rapid viscosity development without the formation of lumps or "fish eyes".

Please contact Vanderbilt Minerals for further information on the products described in this brochure.

Samples and Technical Data Sheets are available on request.

Please visit our website www.vanderbiltminerals.com/Product-Category/PP-Paint_Coatings for additional technical data and our on-line formularies.



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Minerals & Chemicals for Paint & Coatings



Vanderbilt Minerals, LLC supplies many raw materials which are extensively used in the paint and coatings industries. This folder provides general information on these products. Samples and literature providing technical information are available on request.

Mineral Products/Silicate Extender Pigments

Wollastonite – Calcium Metasilicate

VANSIL® Wollastonite is a high brightness mineral filler and functional extender pigment for paint. Its relatively high pH (10-11) helps to maintain the pH of latex paints in the desired range of 8-9. It has low binder demand and low water solubility. The fineness of each grade follows:

	Screen Residue			Hegman Fineness
	+200 mesh	+325 mesh	+400 mesh	
VANSIL® WG <small>Wollastonite</small>	20.0%			0
VANSIL HR-2000	10.0%			0
VANSIL HR-1500	5.0%			0
VANSIL W-10	4.5%			0
VANSIL W-20		3.0%		0-1
VANSIL W-30		<0.1%		4
VANSIL W-40		0.1%		5
VANSIL W-50			<0.1%	6+

Clay (Kaolin) – Hydrous Aluminum Silicate

PEERLESS® Clay, **DIXIE CLAY®** Clay and **McNamee®** Clay, and **BILT-PLATES® 156** Clay fillers are air-floated clays available in a wide range of fineness of grind. They are used in coatings, primers, crack fillers and caulking compounds when high brightness is not a prerequisite. The fineness of each grade follows:

	Screen Residue	
	+200 mesh	+325 mesh
Soft Clays		
PEERLESS® Clay	0.4%	
McNAMEE® Clay		0.7%
Hard Clays		
DIXIE CLAY® Clay		0.7%
BILT-PLATES® 156 Clay		0.1%

Pyrophyllite – Hydrous Aluminum Silicate

PYRAX® Pyrophyllite and **VEECOTE®** Pyrophyllite are useful as extender pigments when a relatively coarse material is required. The micaceous structure of **PYRAX ABB** helps to control the mud cracking of texture paints. **PYRAX B** can be used as a mica replacement in ready mix joint compounds. **VEECOTE** should be used when higher brightness and finer grind are required. The fineness of each grade follows:

	Screen Residue
	+200 mesh
PYRAX® B Pyrophyllite	1.0%
PYRAX ABB	3.0%
VEECOTE® Pyrophyllite	0.3%

Inorganic Thixotropes for Aqueous Systems

VAN GEL® B or **VEEGUM® T** Magnesium Aluminum Silicate are smectite clays specially formulated for easy incorporation and consistent performance in aqueous systems. Aqueous dispersions are highly thixotropic gels at low solids, and are resistant to bacterial and enzymatic degradation. Their use in a coating formula results in a product with no separation and with uniform thixotropic consistency that requires no stirring, while promoting good flow and brushing characteristics. The result is "dripless" application and leveling without sag. Their use in combination with associative thickeners has minimal effect on the gloss of semi-gloss latex paint.

Chemical Additives

Drier Accelerators and Stabilizers

ACTIV-8® Drier, Stabilizer and Accelerator and **ACTIV-8 HGL** drier accelerators are used to optimize drier performance in a wide range of coatings. The active ingredient is 1,10-phenanthroline, offered in different solvent blends. The solutions perform well with manganese and/or cobalt driers in solvent-borne and water-borne coatings that dry by oxidative polymerization. A "How-to" Guide for the Use of **ACTIV-8** is available on request.

1,10-phenanthroline Technical Grade is also available.

Dispersing Agents for Aqueous Systems

DARVAN® Dispersing Agent products are anionic dispersing agents. They disperse finely divided solids in water and help to keep them dispersed. The following **DARVAN** products are useful in the formulation of paints and coatings. A procedure for determining the optimum amount of dispersing agent to use is available upon request.

DARVAN 1 Spray Dried is a general purpose dispersing agent. It is a granular product composed of sodium salts of polymerized alkyl naphthalene sulfonic acid. It increases paste flow, allowing a higher percentage of pigment to be mixed into a given amount of vehicle.

DARVAN 7-N a sodium polymethacrylate-type dispersing agent, is a minimum foaming dispersing agent that is effective for dispersing mineral pigments in water-borne paints and coatings.

DARVAN 670 and **DARVAN 670L**, sodium salts of polymerized naphthalene sulfonates, are general purpose anionic dispersing agents. **DARVAN 670** and **DARVAN 670L** are used for the preparation of aqueous dispersions of colored pigments, dyes, extender pigments, etc. for water-borne paints and coatings. **DARVAN 670L** is a 40% aqueous solution of **DARVAN 670**.

DARVAN 811, a sodium polyacrylate dispersing agent, is effective for high solids mineral slurries such as TiO₂, kaolin, calcium carbonate, wollastonite, etc.

Mold Inhibitor

VANCIDE® MZ-98 is a very effective heat stable mold inhibiting powder for use in unmodified latex paints, joint compounds, adhesives and textured finishes.

Synthetic Rubber

NEOPRENE

Available as an emulsion in many grades for various applications. Uses include industrial and decorative coatings, dipped goods, saturants and wet end additives for fibrous products.