

VANSIL® W Wollastonite

Low Aspect Ratio Grades for Paints & Coatings

VANSIL W is a low aspect ratio (<5:1) wollastonite available in four grades of fineness to meet the requirements of the coatings industry. Each grade exhibits lower viscosity in paint than is indicated by its oil absorption value. The low oil absorption characteristic of **VANSIL W** enables the formulator to reduce raw material cost by replacement of the vehicle. The relatively high pH (10—11) of **VANSIL W** is particularly useful in maintaining the desired alkaline pH level of latex paints and preventing early rusting of latex maintenance coatings. **VANSIL W** is an excellent extender pigment for powder coatings as well as solvent-thinned and latex paints.

VANSIL W-20 is a relatively coarse grade with 2.5% retained on 325 mesh sieve. It will disperse to 0 to 1 Hegman fineness at three pounds per gallon, thereby providing some degree of film roughness where desired.

VANSIL W-30 disperses to 4 Hegman fineness at three pounds per gallon. This grade provides smooth paint films and is a general purpose extender.

VANSIL W-40 disperses to 5 Hegman fineness at three pounds per gallon, providing good film smoothness.

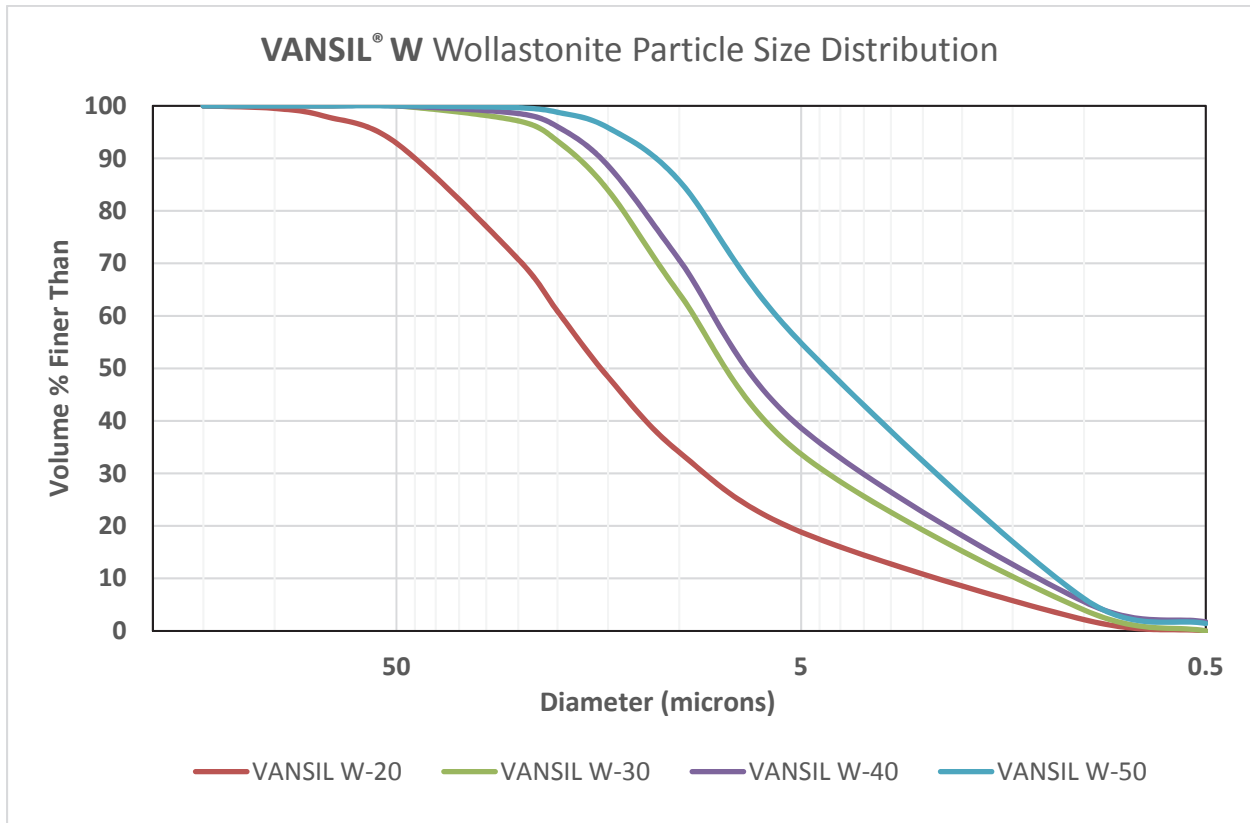
VANSIL W-50 disperses to 6 to 7 Hegman fineness at three pounds per gallon. This grade is suitable for liquid industrial and corrosion resistant coatings, powder coatings and semi-gloss architectural coatings. In powder coatings, this grade is desirable for smoother films and improved gloss.

Typical Chemical Analysis (calculated as oxides):

Calcium Oxide (CaO)	44.9%
Silicon Dioxide (SiO ₂)	51.3%
Aluminum Oxide (Al ₂ O ₃)	0.9%
Magnesium Oxide (MgO)	1.6%
Iron Oxide (Fe ₂ O ₃)	<0.2%
Sodium Oxide (Na ₂ O)	<0.1%
Manganese Oxide (MnO)	<0.1%
Ignition Loss (1000°C)	1.1%

Typical properties by grade:

	VANSIL® W-20	VANSIL W-30	VANSIL W-40	VANSIL W-50
Density (g/cc)	2.9	2.9	2.9	2.9
Weight (lbs/gal)	24.2	24.2	24.2	24.2
pH, 10% slurry (ASTM D 1208)	10-11	10-11	10-11	10-11
GE Brightness (TAPPI T 646)	89	91	93	93
Oil Absorption, rub out (ASTM D 281)	28	32	31	33
Hegman Fineness, 3 lbs/gal (T 1042)	0-1	4	5	6-7
+ 325 Mesh Sieve (T 944)	2.5%	0.03%	0.03%	0.02%
Particle Size Distribution—Horiba LA 300	VANSIL® W-20	VANSIL W-30	VANSIL W-40	VANSIL W-50
D10	2.5	1.7	1.5	1.3
D50	15.6	7.5	6.6	4.5
D90	43.6	17.8	15.7	11.5
D95	56.7	21.7	19.0	14.3



Storage note: Due to the agglomeration of **VANSIL W** during prolonged storage, more than 6 months inventory is not recommended.

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