CLASS 6300

Carbonates and Sulfates

6300-6339	Calcium Carbonates
6340-6349	Magnesium Carbonates
6350-6369	Calcium Sulfates
6370-6379	Barium Sulfates
6380-6399	Miscellaneous

Number	Material	Type	Preparation	Classified
Calcium Carbonates				
6301	Camelcarb, Keystone	Calcite	Dry Ground	Unclassified
6300	Calwhite, Snowflake	Calcite	Wet Ground	Unclass. to semi
6310	Atomite, Camelwhite	Calcite	Wet Ground	Classified
6303	Lesamite	Calcite	Wet Ground	Coarse Class.
63L4	Snowflake Whiting	Calcite	Wet Ground	Unclassified
63Y3	Marble White, 80 Mesh	Calcite		
63C2	Lorite, WG-XF	(Approx. 4:1-Calcite:Diatomaceous Silica)		
63C3	Lorite, DG	(Approx. 4:1-Calcite:Diatomaceous Silica)		
6302	Calytic Chalk	Chalk	Wet Ground & Floated	
63A3	Pure-Cal M	Precipitated		
63L1	Albacar 5960	Precipitated		
63N1	Suspenso 101	Precipitated		
6324	Multifex MM	Precipitated	Micronized	
6322	Surfex	Precipitated	Treated	1% Ca Rosinate
63L3	Surfex MM	Precipitated	Treated	1% Ca Rosinate
63Y1	Troykyd Anti-float		Treated	Al Silicate
Magnesium Carbonate				
6340	Magnesium Carbonate	Precipitated		
Calcium Sulfate				
6355	Gypsum	Dihydrate		
6350	Gypsum	Dihydrate		
63C5	Plaster of Paris	Hemihydrate		
Barium Sulfate				
6370	Blanc Fixe	Precipitated		
6372	Barytes	Ground Ore		
63D70	Barytes, #22	Ground Ore		
63M1	Sparmite	Ground Ore		

Average Particle Microns	Grind Fineness Hegman	Residue 325 Mesh % Max.	Oil Absorp. 419.3	Specific Resistance Ohms Min.	Remarks	Bulk G/100#	Number
8	3.5	0.5	20			4.46	6301
7	5.25	0.5	18	17,000		4.43	6300
3	5.5	0.1	20	20,000		4.43	6310
10	4.5	0.1	16	24,000		4.43	6303
7	5.25	0.5	20	17,000	Dayton Only	4.43	63L4
Coarse					Stucco Sealer	4.33	63Y3
		1.0		18,000	Emulsions	4.73	6302
		0.5		18,000	Emulsions	4.73	6303
8	3	0.5	17		Try 6300	4.46	6302
0.2		0.1	35			4.53	63A3
		0.5	65			4.43	63L1
6	5	0.5	18			4.43	63N1
0.05	7	0.05	50			4.52	6324
2.5	6.5	0.5	18			4.53	6322
					Micromilled	4.53	63L3
						4.44	63Y1
	6.0	0.2	150		Flatting	5.45	6340
	4.25	0.5	30	300	Furniture T. S.	5.11	6355
	4.25	0.5	30			5.11	6350
			21		Alum. Paints	4.60	6305
1.0	7.0	0.5	17			2.80	6370
8.0	5.0	0.5	8			2.70	6372
					Primers	2.79	63D70
		0.2	8		M-S	2.73	63M1

Remarks

WHITINGS (Calcium Carbonates)

Whitings include natural chalks, natural crystalline calcites, and chemically precipitated calcium carbonates.

The calcites are dry- or water-ground; water-grinding resulting in better separation of coarse particles. Water-ground whitings may further be classified to obtain a narrow range of particle size which is generally in the finer range. This promotes higher gloss and good suspension. A variant is Lesamite, 6303 dry, which is coarse-classified to give low gloss and low oil absorption.

Natural chalks have softer settling than other whitings.

Precipitated calcium carbonates are more uniform and easier to grind. They have the best holdout of any extender pigment. Calcium rosinate treatment of precipitated whiting promotes high loadability by improved wetting.

Calcite	(Dry Ground-Unclassified		- 6301
	(Wet Ground	(Unclass. to semi	- 6300
		(Classified	- 6310
		(Coarse Class.	- 6303

Natural Chalk - 6302

Precipitated	(Untreated	- 6321 - 6311
	(Untreated-Micronized	- 6324
	(Treated	- 6322 - 6313

6301 Unclassified whitings, the least expensive calcium carbonates, are recommended for general use in flats, primers, eggshell enamels and barn paints. Flatness is most easily attained with such extenders. Durability and wear resistance also suggest use of 6301 in traffic paints.

6300 Also unclassified and used for the same purposes as 6301, water-ground 6300 has the added advantages of greater fineness and cleaner color. Consistency is somewhat higher than 6301. Where high gloss is not required, it can be substituted for 6310.

6310 Water-ground and classified, 6310 is used in floor and deck gloss enamels where it shows good suspension, good abrasion resistance, good gloss and high holdout.

6303 Coarse classification promotes high flatness and good non-penetrating finishes of this consistency.

6302 Natural chalk is recommended only for those enamels where its softer settling is imperative. Use of 6300 is encouraged otherwise.

63A3 Precipitated Pure Cal M is a replacement for the no-longer-available 1999 dry. It is used in the Paintercraft Line where the rather high oil absorption permits high paint-load. It further has a puff quality which may not be duplicated by combination of 6322 and 6324.

6322 Treated precipitated whiting is used in gloss and semi-gloss paints, and primers and sealers where it shows improved wetting, easier grinding, less scoring of the roller mill and very high holdout. Calcium rosinate treatment promotes high loadability.

63L3 Micromilled 6322.

6324 A micronized whiting with extremely fine particles, low residue, and very high oil absorption. Cost is quite high.

GYPSUMS

Gypsum, 6355 dry, has better transparency than 6350 and is therefore better suited for furniture fillers. 6350 usually has better whiteness and should be used for all other purposes.