

CLASS 6200

Silicates not subclassified (clays, Zeolite, pumice,
slate, Fuller's Earth, bentonite, talc, asbestos,
Portland cement).

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<u>TALCS</u>		Average	Grind		Oil	Relative
Number	Material	Particle Microns	Fineness Hegman	Particle Shape	Absorption S-W 419.3	Consistency KU's
<u>VERY FINE (Stir-in grade)</u>						
6235	Micro Velva A	1.0	6.25	Flake-Granular	42	77
6223	Talc 399	1.0	6.75	Flake	60	112
6242	Talc Dust 49	5.0	6.75	Granular	43	95
6234	Microne 549	5.0	6.75	Flake	55	95
6233	Mistron T-076		6.50	Flake	55	93
<u>FINE</u>						
6232	Nytal 300	6.0	5.75	Granular	40	72
6221	Asbestine FT	6.0	3.25	Fibrous	32	76
6222	Asbestine 5X	7.0	3.00	Fibrous	45	95
<u>MEDIUM</u>						
6231	Talc #21	10.0		Flake	34	77
<u>COARSE</u>						
6240	Soapstone Talc	12.0	3.00	Flake	33	73
<u>LOCAL ASSIGNMENTS</u>						
6215	Nytal 500	0.7	6 -	Granular	72	
62F2	Nytal 400	1.3	6 -	Granular	63	
62L4	Nytal 400	1.3	6 -	Granular	63	
62C13	Micron MSC		6.5	Flake	49	
62L1	Talc Dust #490	4.5	6.75	Granular	56	
62F8	Talc #21 Special			Flake		
62Y5	Sierra C400-76			Fibrous		
62A6	Talc #23	10		(62% Talc content)		
62A11	International Fibre Coarse	0		Fibrous	45	
62P2	Sagger Talc #7		2-3	Granular	40	
62C15	Permigel					
62C16	Carbola Talc			Flake	33	
62T1	Soapstone Talc			Flake		
62Y11	Visco XX			Flake		

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Residue 325 Mesh % Max.	Remarks	Bulk G/100#	Number
0.02	Finest grade regularly used for flatting in brushing enamels.	4.75	6235
0.02	Very fine. High cost but gives high consistency.	4.43	6223
0.05	Recovered material. Limited production. Try 6234.	4.30	6242
0.05	Higher consistency and cost than 6235 but lower than 6242.	4.50	6234
0.05	Higher consistency and cost than 6235 but lower than 6242.	4.30	6233
0.07	General use for high-speed production.	4.21	6232
0.5	Not as fine as 6232 but lower cost. Being replaced by 6232.	4.21	6221
3.0	Most fibrous of regular talcs; coarser than 6221.	4.21	6222
0.7	Flakiest of regular talcs. Has good adhesion & toughness.	4.21	6231
2.1	Coarse soapstone talc of light grey-green cast.	4.26	6240
<u>LOCAL ASSIGNMENTS</u>			
0.00	Lowe Bros.		62L5
0.00	Lucas	4.49	62F2
0.00	Lowe Bros.	4.49	62L4
0.05	Mg Stearate coated for maximum suspension and smoothness.	4.30	62C13
0.10	By-product of 6242 production.	4.30	62L1
	Try to use 6231	4.21	62F8
0.80	Emulsions	4.21	62Y5
2.5	Restricted; Bound Brook	4.44	62A6
2.5	Traffic Paints	4.20	62A11
2.0	Kem sanding primers	4.29	62P2
	Extender Shading Bases	4.90	62C15
0.5	Substitute for 6221	4.75	62C16
	Special Purchase 6240	4.26	62T1
0.15	West Coast production of Rex 1	4.2	62Y11

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<u>CLAYS</u>		Average Particle Microns	Grind Fineness Hegman	Residue 325 Mesh % Max.
Number	Material			
6205	Domestic China Clay (Hydr. Kaolin)	1	5	1.5
6202	Colloidal Clay	0.5	6.5	0.2
62C9	Hydrite Flat Clay			
62Y10	Mono 90 Clay			
62F10	Pliolite 13AS5			
6200	Bentonite Clay		4	10
6210	Bentone 34			5 (200 M)
62F1	Volclay BC (Bentonite)			
62C17	Bentone 18C			5 (200 M)
62C19	Ben-A-Gel			10
62Y14	Bentone 18C			5 (200 M)
62C10	Iron Oxide (8-17%)	5	3.75	3.0
62C4	Zeolite Fines, Unwashed			
62C5	Zeolite Fines, Washed			
62C3	Pyrax B (Prophyllite)			2.9
62C6	Pyrophyllite			
62F6	ASP 100	0.5		0.2
62D4	ASP 400	4.2		0.2
62F7	ASP 400	4.2		0.2
62A7	Franklin Clay			
62A8	Attaclay			
62A19	Barden Clay			
62A20	Pike's Peak Clay 9S66			
62A23	Pike's Peak Clay 9T66			
62A24	Ser-X			
62A25	Sheroid Clay			
62C11	Super Filtrol			
62C14	Metronite #6 Coarse			
62C18	Parker Pigment Clay			2.0
62D7	Wollastonite P-1			

MICAS (ALUMINUM ORTHOSILICATES)

Number	Material	General Type	Average Particle Microns
6251	Powdered Mica, Water Ground	Potassium Aluminum Silicate	
6252	AA Mica, Dry Ground	Aluminum Magnesium Silicate	16
62A21	V4-WP Mica	Potassium Aluminum Silicate	
62A22	Imperial 101 Mica	Potassium Aluminum Silicate	
62D5	Concord Mica 400		
6253	#12 Mica, Water Ground	Potassium Aluminum Silicate	9
62C2	4X Mica		0.5

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Oil Absorption S-W 419.3	Specific Resistance Ohms Min.	Remarks	Bulk G/100#	Number
45			4.56	6205
41	8000	Use 62C9	4.58	6202
	8000	Replacement for 6202	4.58	62C9
	8000	West Coast Alt. 62C9	4.58	62Y10
		60% Clay, 40% Pliolite S5	7.38	62F10
31			4.55	6200
		Puffing Agent	6.77	6210
		Restricted; Sherdye	4.37	62F1
		Flatting Base	6.5	62G17
		Emulsion Paints	5.0	62C19
30-35	10,900	Gelation Agent	6.5	62Y11
		Chiller Pastes	4.50	62G10
		Used for 62C5	7.77	62C4
		Used in BI70	7.77	62C5
	10,000	Emulsions	4.30	62C3
48	8000	Kem Tone	4.30	62C6
38	8000	Lacquer Primers	4.66	62F6
38		Automotive Primers	4.66	62D4
			4.66	62F7
		Bound Brook		62A7
				62A8
		Bound Brook		62A19
		Bound Brook		62A20
		Bound Brook		62A23
		Bound Brook		62A24
		Used in H85WA6	4.5	62A25
16	9000	Filter Aid		62C11
		Silicon Joint Filler	4.21	62C14
			4.65	62C18
26		Primers	4.13	62D7
Residue 325 Mesh % Max.	Oil Absorption S-W 419.3	Specific Resistance Ohms Min.	Bulk G/100#	Number
9	25-31	10,000	4.26	6251
12	45-53	10,000	4.37	6252
				62A21
				62A22
		Acme	5.56	62D5
10	42-46	10,000	4.24	6253
		8000	4.62	62C2
		Emulsions		
		Super KemTone		

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Number	Material	Residue 325 Mesh % Max.	Oil Absorption S-W 419.3	Remarks	Bulk G/100#
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PUMICES

6265	4F Pumice	1.0			5.10
62D3	3F Pumice				5.10
62F4	# $\frac{1}{2}$ Valencia Pumice			Traffic Paint	5.10
62Y15	0- $\frac{1}{2}$ Pumice			Traffic Paint	5.10

ASBESTOS (CALCIUM MAGNESIUM METASILICATE)

6260	2F Asbestos Fibre				3.40
62D2	7R 06 Asbestos Fibre			Caulking Compound	4.30
62Y9	7K Fibre D Asbestos				4.00
62Y13	AX 2390 Asbestos Fibre Floats				4.30

CEMENT (CALCIUM SILICATE)

6270	White Cement	4.0	22		
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Remarks

TALCS

Talcs, hydrated magnesium silicates ($H_2Mg_3(SiO_3)_4$), are generally classified according to particle shape as fibrous, flaky, or granular. Mixtures are classified according to the predominant form.

Use in paints is generally as suspending agents, flatting agents, and as film reinforcements to fill pores, enhance wearing properties, and generally strengthen films.

The fibrous varieties possess superior suspending qualities and are generally used to hold the more heavy pigments in suspension. They further impart film toughness due to their bonding effect, and greatly decrease light reflectance of painted surfaces.

Flake talcs impart protective properties and good hiding power, due to their micaceous nature.

Granular talcs are free from abrasive matter. They have less influence on consistency than other forms.

In general, talcs containing aluminum in quantities of two or three percent have a characteristic softness. Fibrous talcs usually contain four to six percent calcium oxide. However, if present as calcium carbonate, the structure tends to be crypto-crystalline.

For comments on individual talcs, see page 62-3.

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CLAYS (Hydrated Aluminum Silicates)

China Clays (Kaolin) are very fine, do not swell in non-polar organic solvents and have low plasticity in water.

6205 Domestic China Clay is a fine clay with high consistency and good gloss.

6202 Water-washed Kaolin, similar to 6205 in particle size, consistency, and gloss. Replacement with 6209 is now encouraged.

Bentonites and other clays based on montmorillonite have a high chemical activity and are hydrophyllic.

6200 Gels with five to six percent Bentonite form water-oil emulsions.

6210 A product resulting from cation exchange reactions between organic ammonium-type base and bentonite. Use is extensive as a puffing agent.

Miscellaneous aluminum silicates.

62C10 Stained clay containing several percent iron oxide is used in metal primers. Varying iron content makes control of uniformity difficult.

62C3) Propyllites are hydrated aluminum silicates frequently classified
62C6 among the talcs since their performance is similar to that of flaky talcs.