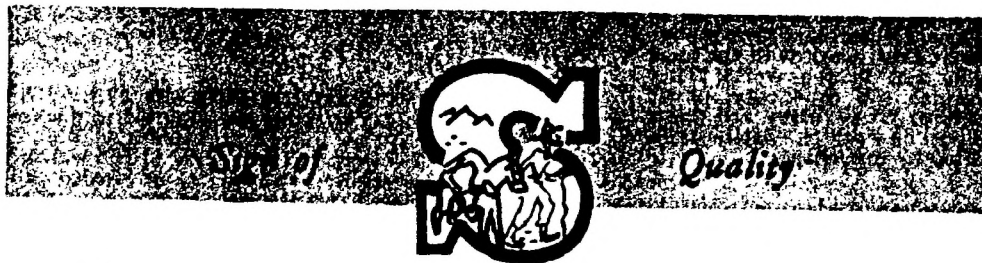


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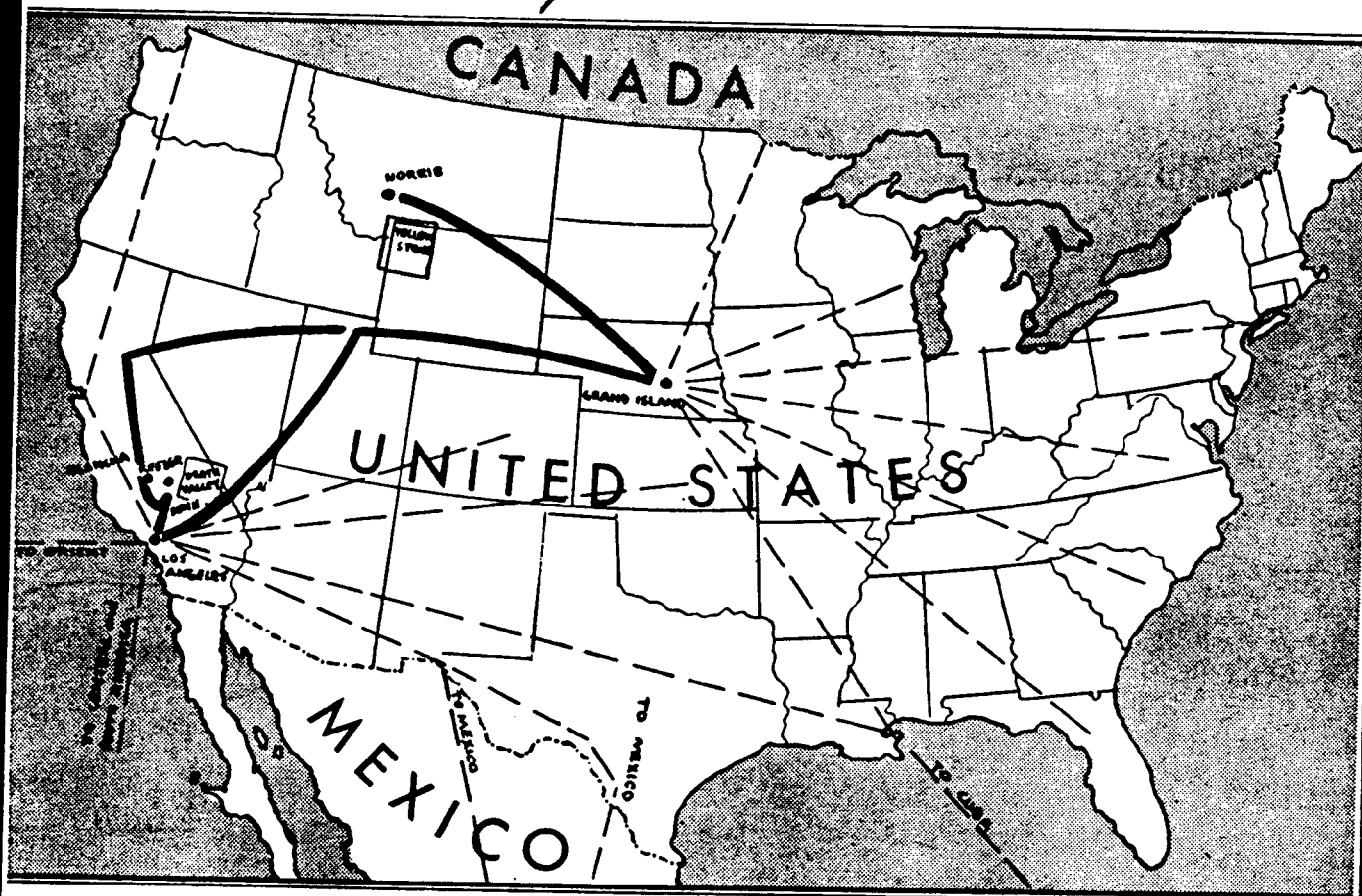
SIERRA TALC & CLAY CO.

Producers of the Finest Talcs in the World

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FIFTEEN MINES in California, Sierra operates 13 mines which produce all types of talc: micaceous, massive, fibrous, and crystalline. One mine in the State of Nevada produces the famous cosmetic talcs Trinity Superfine and Sierra Supreme. Our Yellowstone mine in Montana contains the largest deposit of steatite talc in the world. These large deposits and our experience of 37 years permits us to meet the necessities of all consumers of talc.

FOUR MILLS We operate four ultra-modern mills in Los Angeles, Keeler, and Olancho, California, and Grand Island, Nebraska. All are equipped with air separation machinery in order to ensure exact particle size distribution. In addition, in Los Angeles and Keeler we have special micronizing mills producing the Mistron talcs.



LABORATORIES In our laboratories in South Pasadena, California, Sierra's engineers and technicians work with the most modern equipment in the world. They constantly watch the production of all mills and mines. They carry out basic research as well as work on specific problems submitted by our clients.

DISTRIBUTION TO ALL THE WORLD Our mills are situated in such a manner as to permit rapid and economic shipments to all parts of the world. We offer direct rail service to Mexico and Canada. From the Port of Los Angeles we ship to all of the countries of Latin America, the Far East and Europe.

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TALCS FOR CERAMICS

Talc is the raw material which has the most variety of uses in the ceramic industry. Sierra offers talcs for all of these uses. Our ceramic talcs are grouped in three distinct categories and each category combines the ideal physical and chemical characteristics for each use.

Steatite for the manufacture of insulators; radio and television parts; sparkplugs; and electrical porcelain.

During World War II, Sierra supplied more than 75% of the steatite needs of the Allies. Steatite ceramics have specifications which are very strict as regards shrinkage, vitrification and dielectric characteristics. Since Sierra is the leader in the production of these talcs, we can offer to our clientele talcs which meet all of the above mentioned requisites.

Yellowstone is produced from our extensive Montana mine. We believe this is the largest, most uniform steatite talc mine in the world. The granular particle shape is ideal for forming of steatite parts, both by pressing and extruding. Dielectric characteristics are excellent.

Sierra Hi-Grade #1 and #71 are produced from our California mine. They are similar to Yellowstone.

White Mountain is of extremely white color. It is more refractory than other Sierra steatite talcs.

Mistron HG-75 is the same crude material as Sierra Hi-Grade #1 micronized to approximately 5 times the specific surface of Hi-Grade #1. It is recommended for development of optimum dielectric properties in steatite and high alumina porcelain. Maturity is attainable at lower firing temperatures.

TALCS FOR THE POTTERY AND TILE INDUSTRY

The use of talc in these products reduces the firing temperature and can reduce firing cycle time. Some manufacturers use up to 70% talc, eliminating other fluxes from the formula. They are fired at 8% to 15% absorption. We recommend the following talcs to manufacturers of pottery and wall tile:

CB Ceramic 96 and 99 The low specific surface of these talcs assures a "slip" of high specific gravity and low viscosity with a minimum of water. They contain a minimum of iron, which means a white finished product. These talcs are made of two mesh sizes, 96% through 200 mesh for the manufacture of tile and pottery, and 99% through 200 mesh for pottery. Tile containing CB 96 has excellent pressing characteristics.

Monark is recommended for tile. As with the CB, Monark also gives a finished product which is white. The fineness is 96% through 200 mesh.

Panamint 96 and 99 are 200 mesh grinds of a white firing talc. They are recommended for pottery bodies.

TALCS FOR SANITARY WARE, SAGGERS AND KILN FURNITURE

Sierralite is a hydrous magnesium, aluminum silicate which gives good resistance to thermal shock when blended with the proper amount of clay and correctly fired. This means that kiln furniture and saggars will last much longer. To sanitary ware 3% of this talc is added as a flux, and this permits much more rapid firing cycles without danger of cracking. The fineness of Sierralite is 99.4% to 99.6% through 200 mesh.

Sierra Albatalc is a semi-steatite type which is used where lower firing temperatures are necessary and where moderate percentages of lime can be permitted. It is recommended especially for dry pressing and extrusion. The fineness is 98% to 99% through 325 mesh.

Sierra Hi-Fire is a high alumina talc which is adaptable to the manufacture of cordierite and other types of heat shock resistant ceramics.

Sagger #7 is a high alumina talc which is also used in cordierite and sagger bodies.

CHEMICAL ANALYSES AND OTHER PHYSICAL DATA — TALCS FOR CERAMICS

TALC	SiO ₂	MgO	Al ₂ O ₃	CaO	Fe ₂ O ₃	Na ₂ O & K ₂ O	Ignition Loss
Steatite:							
Mistron HG-75	61.90	30.41	.59	.17	.56	.16	5.38
Sierra Hi-Grade	61.90	30.41	.59	.17	.56	.16	5.38
White Mountain	59.80	29.55	2.14	1.09	.81	.28	5.50
Yellowstone	62.52	30.23	.31	.27	1.51	.20	5.12
Tile and Pottery:							
CB Ceramic 96 and 99	54.07	26.80	.43	9.63	.43	.80	6.79
Monark	48.35	25.61	1.77	9.75	.35	1.34	13.61
Sierralite	30.93	29.75	21.68	1.39	1.58	.29	13.69
Sierra Albatalc	57.46	28.82	1.48	3.93	.39	1.46	6.84
Sierra Hi-Fire	45.36	29.65	11.91	1.24	1.19	.28	9.59
Panamint 96 and 99	57.25	27.95	.75	5.73	.35	2.40	6.84
Sagger #7	33.75	19.88	31.70	1.05	3.16	.25	9.51

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TALCS FOR TEXTILES

The manufacturer of cotton textiles uses talc in the preparation of fillers. The principal requisites are white color, absence of grit, and fineness.

Sierra manufactures various qualities for the textile industry, and takes great pleasure in offering SIERRA SPECIAL TEXTILE TALC. This talc combines all of the mentioned qualities. It is the best known and most used talc

by textile finishing plants in the United States. SPECIAL TEXTILE is produced from our softest talcs. This means a minimum of grit which in turn reduces the dulling of blades and heating of needles which are ordinarily caused by filled fabrics. This talc assures the manufacturer smooth and uniform finish.

We also furnish a talc which is even whiter than Special Textile, our Sierra Fibrene C-300.

CHEMICAL ANALYSES AND OTHER PHYSICAL DATA — TALCS FOR TEXTILES

TALCS	% Fineness Through 325 Mesh	Specific Gravity	Dry Weight
Sierra Special Textile	98.7-99.1%	2.83	26-27
Fibrene C-300	98. -98.5%	2.79	23-25

TALCS FOR RICE MILLING

Despite the distance from our mills, rice millers located in Texas, Arkansas and Louisiana, as well as California, are using Sierra talc in the finishing of their product. With our material they obtain a rice of excellent whiteness and brilliance. The two talcs which we recommend for this use are:

Sierra Supreme 200 has a high hiding power and also is extremely white and chemically pure.

Sierra Supreme 325 is ground to a finer mesh than Supreme 200. This means greater surface area and greater hiding power.

(See Sierra Supreme 200 and Supreme 325 under "Cosmetic Talcs")

TALCS FOR PLASTICS

The use of talcs in the plastics field is increasing daily. The reasons are due to the following:

1. Through increasing viscosity, it prevents sticking of the plastic to molds.
2. It improves the wet strength of the product.
3. It reduces the shrinkage.
4. It aids in regulating the rate of cooling especially in the case of products reinforced with other types of plastics or fibreglass.
5. It gives a smoother surface to the finished product.
6. It reduces the cost of production.

We recommend especially Mistrons T-076, HGO-55, HGO-75, 139, and Trinity Superfine to the plastics manufacturer. With these five the above mentioned advantages are obtained and, in addition, any of these grades will increase resistance to water, high temperatures and chemicals.

The decision to use one of these five talcs should be made in accordance with the uses to which they will be applied and the characteristics required of the finished product. All are of white color and free of grit. The index of refraction of talc is close to that of most plastics. If properly dispersed to eliminate all occluded air, as much as 30% talc can be added to many plastic compositions with no appreciable decline in translucency.

TALCS FOR OTHER INDUSTRIES

Sierra also manufactures talcs for use in many other industries such as rubber, paper, soap, and insecticide. Sierra White IR talc is recognized as a standard within the insecticide industry. It can be used with many of the new types of "killers" without de-activation. It is non-reactive with most "killers". It is dry, free-flowing and relatively non-abrasive.

LS Silver, NS Silver, White 111, and White 200 are among our other talcs. Since we cannot mention all the details of these talcs in this short review, we invite our friends who are interested in such material to request complete information regarding this matter. All requests will receive our prompt attention.

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TALCS FOR COSMETICS AND PHARMACEUTICALS

Until a relatively short time ago the cosmetic and pharmaceutical industry of the United States imported from Europe talc as well as perfumes and essential oils. The reason was simple; Europe had perfected the production of these products generations before the development of the industry in the United States.

When the first World War broke out, the situation changed completely. Under the lash of necessity, (the famous) American ingenuity developed raw materials of domestic origin in order to replace those which had been imported.

Sierra Talc & Clay Company is one of those companies which was born during the first World War and now produces materials known all over the world for their quality and uniformity. The most modern methods and equipment combined with the largest deposits of pure talc in the world assure that our products will continue to be the leaders in the industry.

SIERRA TALCS MEET THE NEEDS OF THE MANUFACTURER

"Slip" and hiding power. (The original producers of cosmetics through error judged these two terms to be synonymous.) Actually "slip", in the usual sense, means the greasy feel of certain European talcs. These talcs are very greasy and the particles are so flat and thin that they leave a shine like soap on the skin. When such talcs are rubbed into the skin they practically disappear and actually have no hiding power. In order to correct this disadvantage, consumers of European talcs add large quantities of expensive pigments such as titanium dioxide and zinc oxide to their powder. These pigments give the necessary hiding power and remove the shiny effect.

On the other hand, Sierra talcs, although they have the same type of particle structure, do not have the greasy feel but rather a true hiding power. In brief, there are two ways of making a good cosmetic talc: To the greasy talcs without hiding power, add large quantities of expensive pigments—or our way—Use a talc which has its own hiding power and reduce the percentage of these pigments. The finished products are equal and the only person who can distinguish between the two is the person who pays the bill for the raw materials.

Chemical Purity This is considered indispensable in order to maintain stability of color and aroma of finished products. Since our deposits are in dry regions and are not damaged by water, they are in their natural state the purest in the world. In addition, we maintain an extremely careful control from the mine through all stages of production to the finished package. In this way we assure extremely pure talc.

Bulking It is necessary that the manufacturers of cosmetics know how much each finished package of the product will weigh. Therefore all of our talcs carry, as a specification, fixed limits for the relation of weight to volume (expressed in terms of pounds per cubic foot).

Fineness Sierra talcs generally are ground finer than most competitive talcs. Our modern machinery and constant control assures there will not be oversized particles that may irritate the skin.

Color Our best talcs are of equal or superior color to any other talc in the world. In addition, they are always uniform.

SIERRA OFFERS A COMPLETE LINE TO THE MANUFACTURER

We refer to the analysis list which demonstrates the variety of talcs for different purposes which we manufacture. Also we are ready to prepare especially different formulas which our clients may require.

Sierra Supreme USP (325 mesh) is the purest talc in the world. It is recommended for pharmaceutical uses. Free from grit, white, and of maximum purity, it can be used in the most delicate tablet dies. Sierra Supreme USP is guaranteed to pass all tests for talc by United States Pharmacopoeia methods.

Sierra Supreme 325 is similar to Supreme USP but we do not guarantee it to pass USP requirements. Nevertheless, it is very pure and of extremely white color. It is recommended to the manufacturer who makes light powder or powders of great volume.

Sierra Supreme 200 is equal to Supreme 325 with the exception that it is ground to 200 mesh. It is manufactured for those who make a heavy powder or who sell their finished commodity in small packages.

Trinity Superfine and Trinity Super talcs are among the most popular in the cosmetic field not only in the United States but in many other parts of the world. They are less expensive than those listed above but are of high quality in all respects.

Sierra Cloud and Sierra Snow talcs are among the best known and most widely used by a variety of industries in the United States and abroad. These talcs are of very high quality and they can be used with good results in the majority of cosmetics.

Silver Cosmetic "IS" has low bulking characteristics, is about 1/5 heavier than Sierra's other grades. This permits the smallest size face powder package of equal weight. It is excellent for rouges and cake applications.

CHEMICAL ANALYSES AND OTHER PHYSICAL DATA TALCS FOR COSMETICS AND PHARMACEUTICALS

	Percent ¹ Purity	Acid Solubles (Maximum)		Bulking in lbs./cu. ft.		Fineness % Minus 325 Mesh
		TGA ² (%)	Sierra ³ (%)	Loose ⁴	Packed ⁵	
Sierra Supreme USP	96-97	0.95	0.50	21-22	38-40	99.5-99.7
Sierra Supreme 325	95-97	2.7	1.0	21-22	38-40	99.5-99.7
Sierra Supreme 200	95-97	2.7	1.0	26-27	54-55	95.0-97.0
Trinity Superfine	95-97	3.2	1.5	23-24	45-46	99.4-99.6
Trinity Super	95-97	3.2	1.5	25-26	50-51	95.0-97.0
Sierra Cloud	94-96	8.0	4.0	27-28	50-51	99.3-99.5
Sierra Snow	94-96	8.0	4.0	28-29	52-53	95.0-97.0
Silver Cosmetic "IS"	92-93	8.0	4.0	28-29	51-53	99.5-99.7

¹ Percent purity expressed as combined percentages of Silicon dioxide, Magnesium Oxide and chemically combined water.

² Toilet Goods Association Specification No. 10, Method No. 11, Issued June 1, 1942.

³ Method: Boil 1 gm talc with 50 ml N/10 H₂SO₄ for one minute. Titrate while hot with N/10 NaOH using phenolph-

thalein indicator. 50 minus NaOH titer multiplied by 0.281 equals percent acid soluble substance calculated as CaO.

⁴ Scott Volumeter bulking of the "fluffed" materials as lbs./ft.³.

⁵ Toilet Goods Association Specification No. 10, Method No. 12, reported as lbs. per cu. ft. For grams per millimeter divide by 62.43.

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TALCS FOR PAINTS

Talc (hydrous magnesium silicate) is considered to be among the best of all extenders for the following reasons:

- (1) It is inert.
- (2) It aids suspension.
- (3) It increases durability.
- (4) It is soft and easy to disperse.

Sierra produces a complete line of talcs widely used by the most important paint manufacturers in the world.

AIR FLOATED TALCS

"Fibrene" talcs are famous for being the most versatile talcs, owing to their wide variety of applications, in the paint industry.

Fibrene C-400 and C-500 are the finest and softest of the conventionally ground talcs. They save grinding time when compared with ordinary talcs. They also have the following advantages:

1. Are the whitest paint talcs on the market.
2. Do not contain oversized particles.
3. Are non-abrasive, will not damage mills.
4. Wet easily.
5. Aid dispersion of the pigment permitting more extender and less oil.

6. Aid stability of paint in the can, will not harden.

Fibrene C-300 is a little less fine than C-400. It is also slightly less expensive.

Trinity Superfine is of the "platy" particle type which guarantees a smooth surface. It is of good color and very pure chemically. It is recommended for exterior paints, flats, interior semi-glosses and for certain types of emulsion paints.

Sagger #7 is used in paints in primer sealers for the development of good metal adherence properties and for certain government specification paints calling for salt spray resistance.

I. S. Silver has a very low oil absorption and high density which permits reduction of oil content.

MISTRONS - MICRONIZED TALCS

Mistron is our trade name for micronized talcs that have great hiding power owing to the extremely small particle size and rapid dispersion of the pigment. These talcs are rapidly gaining acceptance among paint manufacturers and we are sure they are the talcs of the future in this industry. We offer the most complete line with the following characteristics:

Mistron HGO-55 is made from the same raw material which we use for the famous Sierra Supreme USP talc. It is the finest, whitest, flats most rapidly, has great power of dispersion and hiding power in flats.

Mistron HGO-75 is similar to HGO-55 with the exception that it has a slightly lower oil absorption and a slightly lower hiding power in flats. It is recommended as well for water base paints.

Mistron T-076 is our most versatile micronized talc and is the least expensive of the true "Mistrions". It can be used in any type of semi-gloss or flat, including water base paints.

Mistron F-128 is similar to T-076 but of reduced fineness and lower oil absorption.

Mistron MSC is a micronized talc coated with magnesium stearate. Therefore it has a lower oil absorption than the ones listed above. Up to 25% of this talc can be used to replace TiO₂ in enamels and glosses without reducing gloss.

Mistron 139 is an intermediate between the conventionally milled talcs and Mistrions as far as particle size is concerned. It is economical for those who desire a talc with some of the characteristics of micronized talcs at a lower price. This talc is particularly advantageous for use in paints where a Hegman fineness of 4-5 is desired. In such a case it is unnecessary to grind the extender talc.

The proper use of any pigment or extender in paints involves correct dispersion technique. With emulsion systems many new problems are introduced. Selection of the proper type and quantity of surfactant is critical. Surface active agents suitable for one type of pigment may be entirely unsatisfactory for another type of pigment. Sierra's laboratories are available to any prospective customer for aid in the solution of these rather complex problems.

CHEMICAL ANALYSES AND OTHER PHYSICAL DATA — TALCS FOR PAINTS

TALC	Oil absorption in Lbs. per 100 lbs.	Hegman Fineness	Magnesium Silicate	CaO Maximum	Specific Gravity	Weight Per Solid Gallon	Consistency in Oil 40% Suspension, KU
Fibrene C-500	28-30	3-4	90-92%	6 %	2.79	23.24	71-73
Fibrene C-400	30-32	2-3	88-90%	7 %	2.79	23.24	70-75
Fibrene C-300	28-30	2-3	87-89%	9 %	2.79	23.24	68-70
Trinity Superfine	32-34	3-4	91-92%	1.5%	2.76	22.99	70-75
I. S. Silver	28-30	2-3	89-91%	9.5%	2.85	23.74	60-62
Mistron HGO-55	55-60	7	91-92%	1.2%	2.76	22.99	130-150
Mistron HGO-75	50-52	6-7	91-92%	1.2%	2.76	22.99	116-119
Mistron T-076	42-44	6-7	90-92%	6 %	2.79	23.24	94-97
Mistron F-128	38-40	5-6	90-92%	6 %	2.79	23.24	89-92
Mistron MSC	33-35	6-7	90-92%	6 %	2.79	23.24	66-69
Mistron 139	35-37	4-5	90-92%	6 %	2.79	23.24	87-89
Sagger #7	32-34	2-3	54-56%	2 %	2.80	23.22	65-67

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SIERRA TALC & CLAY COMPANY places its completely equipped laboratory, manned by specialists in the field, at the disposal of its customers everywhere. Although some inquiries for assistance may come from companies who are not our customers these services, in the form of advice, will be given free.

It is our aim to aid in the improvement of quality of the products which are currently being made by our friends. In this way we hope to be able to assist our present clients and, at the same time, make new friends.