"CALIDRIA" ASBESTOS SG-130 AND SG-210 For Tape Joint Compounds

Lowers Costs Two Ways

CALIDRIA Asbestos acts as a bodying and secondary thickening agent permitting formulation of lower density, more economical tape joint compounds without the sacrifice of performance. CALIDRIA Asbestos is produced by a proprietary manufacturing process that yields unusually high fiber content and more complete fiber liberation from the natural bundles. As a result, CALIDRIA Asbestos goes up to twice as far, pound for pound, as commercial grades of asbestos containing large amounts of other filler materials that have no specific desirable effects on tape joint compound properties.

Reduces Cracking

The fibers of CALIDRIA Asbestos behave as an active lyophobic colloid in aqueous dispersion; by this mechanism CALIDRIA Asbestos increases tape joint compound liquid cohesive strength during drying. Increased liquid cohesive strength greatly reduces the tendency for cracks over nail holes, in thick sections at the center of the joint, and along the feathered edges.

Enhances Sandability

CALIDRIA Asbestos contains mainly chrysocile fiber and is essentially free from abrasive contaminants, such as magnetite and serpentine tock dust. This composition results in a low density product, free from contaminants that interfere with sanding.

Improves Uniformity

Narrow and well-controlled particle size distribution, low alkalinity and high brightness are characteristic of CALIDRIA Asbestos. These properties are consistent from batch to batch and improve the uniformity of tape joint compounds using CALIDRIA Asbestos.

Suggestions for Use of CALIDRIA Asbestos

CALIDRIA Asbestos can be readily used in your present tape joint compound formulation. Add approximately one-half the proportion of asbestos you now use. Increase the proportion of calcium carbonate or other inert filler to make up for the lower quantity of asbestos. You may alsobe able to use slightly more water in your ready-mix and maintain your present viscosity level. No other changes in your

October, 1968 F-42258

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"CALIDRIA" ASBESTOS SG-130 AND SG-210

For Tape Joint Compounds

Suggestions for Use of CALIDRIA Asbestos (Continued) formulation or manufacturing procedure are required.

CALIDRIA Asbestos SG-130 has the coarser particle size; it finds use for

bedding compounds or perhaps spackling compound. The SG-210 has the finer particle size and is favored for topping compounds, all-purpose compositions, texture paints, and similar formulas.

A Suggested Ready-Mix Tape Joint Compound For Use With CALIDRIA Asbestos

			Ports by Wei	ght
Prices		Brich.	Dry Basis	- 32E.
.31	Fillers: Calcium Carbonate, No. 1 White (Thompson Wainman) Mica. P80F (Western Mica). Clay, ASP-400 (Minerals and Chemicals Philipp Corp.) CALIDRIA Asbestos, SG-210 (Union Carbide)		61.42 21.00 4.00	5 1.61 .74 .75 .75
	Binder: - UCAR Latex 131 (Union Carbide)	6.6 c	6.60°	
	Workability Control Agent: - CELLOSIZE Thickener, TJC Grade (Union Carbide)		0.50	. = :
	Drying Control: - Ethylene Glycol (Union Carbide)	1.03	1.00	. 15
	Defoamer: "Napca" PD-1 (Napco Chemical Company)		0.10	
	Dispersant: "Daxad" 30 (Dewey & Almy Chemical Div.)	••••••	0.60*	.2=
	Bacteriastat: "Dowicide" A (Dow Chemical Ca.)			.25
	Total Water: about 56 parts by weight per 100 parts dry solids	12.4	3 100.00	<i>₹</i> ′.
	*Contained solids basis	C Fr	200015	

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"CALIDRIA" ASBESTOS SG-130 AND SG-210

For Tape Joint Compounds

Typical Product Characteristics

	CALIDRIA Asbestos	
••	SG-130	SG-210
Reflectance (G.E. Photovalt)	68%	
Contained magnetite	2% m	ox.
Alkalinity (as 5 of Na2O)	0.05	to 0.06
pH (S% aqueous slurry)	8.5 to	9.5
Surface area (BET)	50 to 60 m²√g.	
Oil Adsorption (DOP #/100# asbestos)	90 to 100	110 to 120
Wer Bulk, settled vol. (ml.) 10g/250 ml./1 hr.	200	220
Dry Bulk (#/fr.3)	Z to 8	5 10 6
Water absorption (wt. % in filter cake)	55 to 60	62 to 65
Size distribution (cumulative % retained)		
Wet Screen mesh size		
100	5	Trace
200	17	3
325	28 to 32	10 to 15

Packaging and Shipping Information

Product Form - Opened (finely ground) chrysotile asbestos fiber.

Packaging -

	CALIDRIA	Asbestos
	SG-130	SG-210
One Package	40 lb.	30 lb.
Carload	1,600 lb.	1,050 lb.
Truckload	2,000 lb.	1,500 16.

Shipping -

Classification — asbestos shorts

Rail point of origin - Welby, California (King City, California)

TOXICOLOGICAL PROPERTIES

It has been known for many years that some persons working in asbestos production were prone to develop a disabling lung disease. In time, this condition became known as asbestosis and was related to exposure to high concentrations of asbestos dust. With further experience, it was found that men could work with asbestos without development of lung disease if

dust concentrations were kept below a certain level. It is now generally accepted that a man can work a 40-hour week for a lifetime without developing asbestosis if the asbestos dust particle count is kept at or below 5 million particles per cubic foot of air. This dust concentration of 5 million particles per cubic foot of air is the Threshold Limit Value for asbestos, and no cases

TOXICOLOGICAL PROPERTIES (Continued)

of asbestosis are believed to have occurred when exposures have been maintained at or below this level, despite large-scale utilization (now approaching one million tons per year in the U.S.A.). This concentration of dust is generally not visible in the average work area unless a beam of light causing a Tyndall effect is present. Usually the dust concentration must be from 8-10 million particles per cubic foot before its presence is visible in average lighting conditions.

Several years ago, it was reported that there was an increase in the incidence of cancerous rumors, especially of the lung, associated with asbestosis. Recently there have been reports of some cancers occurring in individuals exposed to asbestos dust, but who have not developed clinical asbestosis. It is believed by most authorities that these cases have been associated with exposures significantly exceeding the Threshold Limit Value. A major manufacturer of asbestos products who also mines asbestos has not been able to show an increase in cancerous growths in men working where dust concentrations were maintained at the Threshold Limit Value.

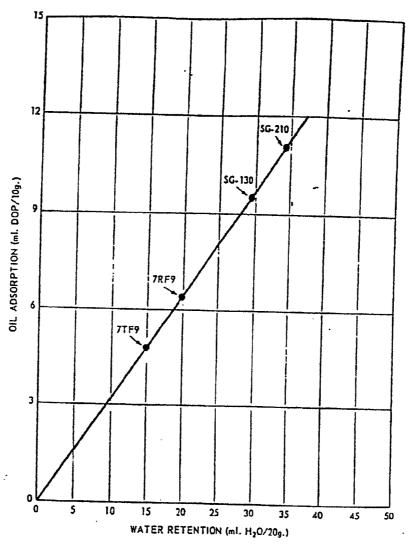
Control of asbestos dust exposure is therefore necessary. The control methods are the standard ones applicable to a variety of dusty operations. They include closed

flow systems, wet processes where possible, and adequate exhaust ventilation where openings in the system are necessary. Pelletizing is sometimes used to improve the handling characteristics of otherwise dusty materials. Where satisfactory containment to stay within the Threshold Limit Value is impractical or impossible, efficient and reliable respirators are available for the protection of the employee. A program of environmental monitoring in manufacturing operations is highly desirable to determine that Threshold Limit Values are not being exceeded. Employees should wear respirators where dusting occurs in finishing products such as sanding taped ioints.

Pre-employment and periodic physical examinations of workers are desirable. These should include chest X-rays to insure that the worker has no chest condition prior to work with asbestos and to determine that no lung changes are resulting from work with asbestos.

In conclusion, while asbestos dust in excess of the Threshold Limit Value is potentially harmful, as are many other dusts encountered in industry, it is as readily controlled as other such dusts and it can be used safely with appropriate precautions.





RELATIONSHIP BETWEEN WATER & OIL ADSORPTION CAPACITY OF SOME ASBESTOS PRODUCTS FOR TAPE JOINT ADHESIVE FORMULATIONS



THE DISCOVERY COMPANY

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Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil 5. A. Sao Paul CANADA Union Carbide do Brasil 5. A. Sao Paul CANADA Union Carbide Consede Ltd., Calgary, Lack Carlibbera Union Carbide Inter-America, Inc., Panam Central America, Dec., Panam Central Called Inter-America, Inc., Panam Central Called Union Carbide Colombia, S. A. Bogots MEXICO Union Carbide Colombia, S. A. Bogots MEXICO Union Carbide Inter-America, Inc., Lima Venezuela, C. A., Caras Western Memisphere Union Carbide for Venezuela, C. A., Caras Western Memisphere Union Carbide Australia Ltd., Sydney, N. Hong Kong Umon Carbide Australia Ltd., Sydney, N. Hong Kong Umon Carbide New Zealand (Pty) Ltd., K. Philippines Union Carbide New Zealand (Pty) Ltd., K. Philippines Union Carbide Singapora Ltd., Singapora Ltd., Singapora Union Carbide Singapora Ltd., Singapora Lunion Carbide Singapora Ltd., Singapora Edition Umon Carbide Singapora Ltd., Singapora Edition Umon Carbide Singapora Ltd., Singapora France Umon Carbide Deutschland, Gmith, Umon Carbide Deutschland, Gmith, Union Carbide Deutschland, Gmith, Union Carbide Bides So.A., Million Carbide Middle East Ltd., Americal	rs Aires , Rio de Janeiro une (P.Q.), Toronto, Vancouver, Winnipeg usan, Puerto Rico as City, Panama uago o, O. F., Guadalajara, Monteiray cra fork, N. Y. , S. W. ubay, Madras, New Osihi Auculand rechi re francaise, Puteaux-Pans ssettoof , Greece
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Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America. Inc., Bueno BRAZIL Union Carbide do Brasil S. A. Sao Paulio, CANADA Union Carbide do Brasil S. A. Sao Paulio, CARIBBEAM Union Carbide Inter-America, Inc., Panar CENTRAL AMERICA. Union Carbide Inter-America, Inc., Panar CHILE. Union Carbide Colombia. S. A., Bogots Union Carbide Colombia. S. A., Bogots Union Carbide Colombia. S. A., Bogots MEXICO Union Carbide Colombia. S. A., Bogots PERU Union Carbide Inter-America, Inc., Lima Venezueta. Union Carbide Inter-America, Inc., Lima Venezueta. C. A., Carac Western Hemisphere Union Carbide Australia. C. A., Carac Western Hemisphere Union Carbide Australia. Ltd., Sydney, N., Hong Kong Umon Carbide Australia. Ltd., Sydney, N., Hong Kong Umon Carbide Baba Ltd., Hong Kong INDIA Union Carbide India Ltd., Calcutta. Bom New Zealand (Pt) Ltd., A. PHUPPINES Union Carbide Philippines Inc., Manita Union Carbide Singapora Ltd., Singapora Ltd., Singapora Ltd., Singapora Union Carbide Singapora Ltd., Singapora Carbide Singapora Ltd., Singapora Union Carbide Europe 3.a., Succursale FRANCE Union Carbide Europe 3.a., Suc	rs Aires , Rio de Janeiro une (P.Q.), Toronto, Vancouver, Winnipeg usan, Puerto Rico as City, Panama uago o, O. F., Guadalajara, Monteiray cra fork, N. Y. , S. W. ubay, Madras, New Osihi Auculand rechi re francaise, Puteaux-Pans ssettoof , Greece
Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil S. A. Sao Paulo, CANADA Union Carbide do Brasil S. A. Sao Paulo, CANADA Union Carbide Inter-America, Inc., Brand Carbide America, Inc., San J. Union Carbide Inter-America, Inc., Panam Central America, Inc., Panam Central America, Inc., Panam Central Callombia, S. A. Bogota Union Carbide Colembia, S. A. Bogota Union Carbide Colembia, S. A. Bogota Union Carbide Inter-America, Inc., Lima Venezuela, C. A., Carac Venezuela, C. Ca	is Aires Rio de Jansiro une (P.Q.), Toronto, Vancouver, Winnipeg uan, Puerto Rico o, O. F., Guadalajara, Monteiray cas cork, N. Y. S. W. ubay, Madras, New Osihi Auckland rach ra francaise, Puleaux-Paris sseidorf Greece m Greece m Sweden
Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil S. A. Sao Paulo, CANADA Union Carbide do Brasil S. A. Sao Paulo, CANADA Union Carbide Inter-America, Inc., Brand Carbide America, Inc., San J. Union Carbide Inter-America, Inc., Panam Central America, Inc., Panam Central America, Inc., Panam Central Callombia, S. A. Bogota Union Carbide Colembia, S. A. Bogota Union Carbide Colembia, S. A. Bogota Union Carbide Inter-America, Inc., Lima Venezuela, C. A., Carac Venezuela, C. Ca	is Aires Rio de Jansiro une (P.Q.), Toronto, Vancouver, Winnipeg uan, Puerto Rico o, O. F., Guadalajara, Monteiray cas cork, N. Y. S. W. ubay, Madras, New Osihi Auckland rach ra francaise, Puleaux-Paris sseidorf Greece m Greece m Sweden
Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil S. A. Sao Peulio, CANADA Union Carbide do Brasil S. A. Sao Peulio, CANADA Union Carbide inter-America, Inc., Panar Central America, Inc., Panar Central Colombia, S. A., Bogots Union Carbide Colombia, S. A., Bogots Micro Comercial, S. A. de C. V., Mexico Union Carbide Colombia, S. A., Bogots Peru Union Carbide Inter-America, Inc., Lima Venezueta, C. A., Carac Western Hemisphere Union Carbide Inter-America, Inc., New York Strand Union Carbide Avetralia, C. A., Carac Western Hemisphere Union Carbide Avetralia Ltd., Sydney, N., Hong Kong Umon Carbide Avetralia Ltd., Sydney, N., Hong Kong Umon Carbide India Ltd., Calcutta, Bom New Zealand (Pr), Ltd., A. National Carbide Philippines Inc., Manita Union Carbide Philippines Inc., Manita Singapore Ltd., Singapore Ltd., Singapore Ltd., Singapore Union Carbide Singapore Ltd., Singapore Union Carbide Evipera, S., Succursale France Union Carbide Evipera, S., Succursale Scandinavia Union Carbide Evipera, N., Amsterda Scandinavia Union Carbide Evipera, A., Sincanom, SPAIN Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., Carbide Union Carbide Evipera, S., Carb	rs Aires Rio de Jansiro Rio de Jansiro Rio de Jansiro Rio de (P.Q.). Toronto, Vancouver, Winnipeg usan, Puserto Rico pago o, O. F., Guadalajara, Monteiray cas rork, N. Y. S. W. S. W. Shay, Madras, New Delhi auculand rachi ra francaise, Puteaux-Pans ssetdorf G. Greece im Sweden Manchester, Rickmansworth; England
Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil 5. A. Sao Paulo, CANADA Union Carbide do Brasil 5. A. Sao Paulo, CANADA Union Carbide Inter-America, Inc., Brand Central Canada Ltd., Calgary, Lack Central Canada Inter-America, Inc., Panatr Central America, Union Carbide Comercial Chile U.G., San Ji, College Inter-America, Inc., Panatr Collombia Union Carbide Collembia, A. Bogota Unicarb Comercial, S. A. do C. V., Mexico Peru Union Carbide Inter-America, Inc., Lima Venezuela, C. A., Carac Venezuela, Carac Venezuela, C. Carac Venezuela, Cara	rs Aires , Rio de Jansiro une (P.Q.), Toronto, Vancouver, Winnipeg usen, Puerto Rico usen, Puerto Rico o, O. F., Guadalajara, Monteiray cas rork, N. Y S. W. Libay, Madras, New Delhi ucculand racho ra francaise, Puteaux-Pans sseldorf , Greece m , Sweden Manchester, Richmansworth; England
Pan America Eastern Europe	ARGENTINA Union Carbide Inter-America, Inc., Bueno BRAZIL Union Carbide do Brasil S. A. Sao Peulio, CANADA Union Carbide do Brasil S. A. Sao Peulio, CANADA Union Carbide inter-America, Inc., Panar Central America, Inc., Panar Central Colombia, S. A., Bogots Union Carbide Colombia, S. A., Bogots Micro Comercial, S. A. de C. V., Mexico Union Carbide Colombia, S. A., Bogots Peru Union Carbide Inter-America, Inc., Lima Venezueta, C. A., Carac Western Hemisphere Union Carbide Inter-America, Inc., New York Strand Union Carbide Avetralia, C. A., Carac Western Hemisphere Union Carbide Avetralia Ltd., Sydney, N., Hong Kong Umon Carbide Avetralia Ltd., Sydney, N., Hong Kong Umon Carbide India Ltd., Calcutta, Bom New Zealand (Pr), Ltd., A. National Carbide Philippines Inc., Manita Union Carbide Philippines Inc., Manita Singapore Ltd., Singapore Ltd., Singapore Ltd., Singapore Union Carbide Singapore Ltd., Singapore Union Carbide Evipera, S., Succursale France Union Carbide Evipera, S., Succursale Scandinavia Union Carbide Evipera, N., Amsterda Scandinavia Union Carbide Evipera, A., Sincanom, SPAIN Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., Carbide Evipera, S., A., Madin Union Carbide Evipera, S., A., Madin SWITZERIAND Union Carbide Evipera, S., Carbide Union Carbide Evipera, S., Carb	rs Aires , Rio de Jansiro une (P.Q.), Toronto, Vancouver, Winnipeg usen, Puerto Rico usen, Puerto Rico o, O. F., Guadalajara, Monteiray cas rork, N. Y S. W. Libay, Madras, New Delhi ucculand racho ra francaise, Puteaux-Pans sseldorf , Greece m , Sweden Manchester, Richmansworth; England