BC: B. L. Ingalls
File NB #2093-48, 49



File

THE DISCOVERY COMPANY

Caldecott ASBESTOS

UNION CARBIDE CORPORATION • MINING & METALS DIVISION • P.O. BOX 579 • NIAGARA FALLS, N. Y. 14302 • TEL: 716-278-3376

September 10, 1975

Re: Mexican Asbestos Sample

Mr. Ken Campbell
Montello, Inc.
P.O. Box 130
Sand Springs, OK 74063

Dear Ken:

This is in response to your request for comments on the source of the above noted sample. For easy reference the table from Blair's letter of August 26, 1975 is reproduced with the data for the new wetted Canadian Flosal written in. A prior summary of the various competitive materials is also attached.

The AEC Test and the 2 g/l wet bulk show clearly that this material is different from any of the Flosal products now or previously available. The 2 g/l wet bulk was so low that we rechecked and duplicated the results. The asbestos settles right out leaving a cloudly supernatant liquid that appears to contain lots of finely ground rock. The material is also coarser than the competitive products shown.

The long fibers present are typical of asbestos from Canada or from Canadian type cross fiber type deposits. The magnetite level, however, is on the low side for Canadian products. I would guess that this is a relatively poorly refined product from Canada or from a similar form of deposit in some other country, possibly Mexico. It is definitely not "new Flosal" or a sample left over from Coalinga.

Very truly yours,

H. B. Rhodes
Technology Manager

HBR:ep
Attachments

Floral 741 Wet...

	Montello Asbestos Sample		Super Visbestos Jan. 1975	Feb. 1975	Mar. 1975
Reflectance (%)	57.5	50.4	69.0	70.0	69.5
Magnetite (%)	3.67	5.2	1.65	1.68	1.94
Wet Bulk (ml) (2g/liter)	60	920	845	665	845
Dry Bulk (#/ft.^{3})	15.4	44.0	27.9	26.7	26.7
Available Fiber (%)	95.9	98.2	57.1	49.8	53.9
Ultimate Fiber (%)	100.7	70.6	80.1	78.7	80.5
AEC (Fann Viscosity)					
AV	8.5	26	18.5	16.0	17.5
PV	6.0	18	3.0	3.0	3.0
YP	5.0	19	31.0	26.0	29.0
Dry Screen - % Cumulative					
+3	--		--	--	--
4	--		--	--	--
6	--		0.41	--	--
10	--		4.53	4.95	5.04
20	12.78		29.63	27.83	29.07
40	36.31		50.75	48.74	49.61
70	55.58		64.74	63.76	63.56
Tap Water Screen					
% +65	15.3	8.0	5.8	6.3	4.1
% +100	17.0	23.0	8.4	9.1	7.4
% +200	28.4	41.2	22.5	22.8	18.3
% +325	33.2	36.2	37.6	35.2	28.3
Dispersed Wet Screen					
% +65	13.2	6.9	3.7	4.9	6.1
% +100	12.2	9.8	6.9	7.9	8.8
% +200	38.3	24.3	16.4	18.8	21.7
% +325	43.7	34.9	25.5	28.6	35.7
	Long fiber present	Long fiber present			

Union Carbide trial exhibit UC-713: H. B. Rhodes to Ken Campbell (Montello, Inc.) on a Mexican Asbestos Sample...
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TABLE I

ASBESTOS PRODUCTS FOR DRILLING FLUIDS - COMPARISON OF PHYSICAL PROPERTIES

PROPERTY	SUPERVISBESTOS 1973 Q.C. Samples June	July	Aug.	Sept.	VISBESTOS 1973 Q.C. Samples Feb.	March	June	Aug.	OLD FLOSAL Okla. 4/69 City	Wdwd.	Enid	NEW FLOSAL (1) 8/73	ATLAS AZ-20 8/71	ATLAS #1092 10/73	PACIFIC 7EX2 9/73	7EX3 9/73	Flosal 74
Reflectance (%)	70.0	70.0	70.5	71.0	67.0	67.5	67.5	69.0	72.0	71.0	70.0	71.0	68.0	70.5	58.0	61.0	50.4
Magnitite (%)	2.0	1.6	1.4	1.5	1.9	1.8	1.6	1.4	3.0	3.1	3.6	2.1	2.0	1.2	5.1	5.0	5.2
Dry Bulk (lb./ft.^{3})	26.4	24.7	26.8	28.4	9.2	9.0	8.5	8.9	8.5	8.9	8.8	5.8	9.6	6.4	9.9	7.2	44.0
Wet Bulk (10g./250 ml.)	-	-	-	-	186	162	167	165	100	201	99	177.	86	111	183	233	
Wet Bulk (2g./L.)	820	675	800	520	365	320	400	465	195	200	-	280	185	245	250	455	920
Wet Screen (Floc.)																	
Cum. % +65	7.0	6.9	6.1	8.9	12.6	8.5	14.1	9.2	44.3	52.5	38.5	7.4	35.3	19.2	16.2	29.4	8.0
" " +100	11.3	12.1	9.2	14.3	15.1	15.9	18.8	14.2	53.6	58.4	44.8	20.1	44.6	29.5	27.2	37.5	23.0
" " +200	28.4	28.5	24.7	31.7	28.7	30.8	34.8	30.0	67.9	68.6	50.0	39.0	56.6	46.8	41.1	54.1	41.2
" " +325	45.5	50.9	40.2	43.9	42.5	43.9	46.9	44.2	74.4	77.1	66.8	51.7	67.0	57.3	51.4	64.5	56.2
Wet Screen (Disp.)																	
Cum. % +65	5.6	6.0	5.0	5.8	6.4	5.3	9.0	4.2	13.1	18.3	13.6	3.7	4.1	2.2	14.3	26.4	6.9
" " +100	9.4	8.7	7.6	10.0	9.5	7.6	12.2	8.0	16.2	21.8	16.8	7.7	6.6	4.0	16.9	30.3	9.6
" " +200	21.6	19.2	17.1	22.5	18.7	16.8	23.2	18.0	29.8	30.2	27.0	17.6	13.7	11.9	31.6	45.2	24.3
" " +325	31.2	28.7	26.1	29.4	28.8	22.5	34.3	27.8	37.9	36.4	35.7	27.2	27.4	18.7	46.2	62.3	34.9
Available Fiber (%)	49.8	54.5	53.6	49.4	44.1	48.4	45.0	46.5	48.0	46.7	44.7	48.4	54.0	60.3	96.2	99.2	98.2
Ultimate Fiber (%)	93.4	92.2	79.1	80.5	80.1	83.0	85.6	79.2	77.2	80.2	71.5	88.5	72.0	84.6	67.7	95.1	70.6
															Long Fibers Present	Long Fibers Present	Long Fiber Present

1.) Last material from Coalinjo.
2.) New Canadian material.

H. B. Rhodes
11/27/73

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