

UNITED STATES ASBESTOS DIVISIONof Eastman-Kodak Company, Inc.Marble, Penna.

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A survey was made of this plant on March 14, 15, 16, 17, 20, 21 and 22, 1939. This report supplements reports made on similar surveys conducted in 1930, 1935, and 1936.

The manufacturing operations at the time of this survey were the same as in the previous surveys. A few changes have since been made in the relocation of machines and in the application of exhaust systems for the collection and removal of generated dusts. Such changes are noted in the remarks column in the following tables of results.

The same sequence of sample numbers has been followed as in the previous reports.

Sept 10
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EXHIBIT 267

R 21 26/2-2
5-13-83

U. S. ASBESTOS DIVISION OF RAYBESTOS-MANHATTAN, INC.

Marble, Penna.

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Total Count of Millions of Particles per cubic foot of air sampled		Type of Dust	Remarks
1	Preparing or opening room area of vertical opener and snaker screens; machines #19 and 39	3/15/39	38.0	8.0	48	Asbestos	The exhaust fan in window under hood has been lowered to 4 feet from the floor and its capacity increased approximately half the batch sitting is gone outside the hood.
2	At operator's position on loam #945	3/15/39	45.0	5.2	31	Asbestos and cotton	This position is near the chasers which are being enclosed and exhausted.
4	Between #1 and 2 chasers; machines #2 and 3	3/14/39	56.0	4.0	24	Asbestos	These chasers are being provided with exhaust hood.
6	At loading end of tandem vertical opener; machine #15	3/15/39	56.0	5.2	31	Asbestos and cotton	
3	At discharge end of tandem vertical opener; machine #46	3/15/39	45.0	2.5	15	"	The exhaust hood has been extended to cover the conveyor and truck into which the material drops.
	General air sample taken at center of the opening room	3/15/39	44.0	1.6	10	"	The additional laves placed in this department were not in operation when this sample was taken.
7	At Williams crusher	3/15/39	38.0	2.6	16	"	No waste material on the floor at the time this sample was taken.
7A	At plant cutter	3/15/39	36.0	3.0	18	"	Sample #9 was taken at the picker which has since been eliminated. No exhaust applied to this machine. The material discharges onto the floor.

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Total Count of Millions of Particles per Cu. Ft. Sampled		Type of Dust	Remarks
1	Dept. 1 - 2nd Plant. Dept. 1	3/21/39	42.0	1.5	4	Asbestos and cotton	The exhaust system on the cards is the same as in 1938.
9	At operator's position, cards 1, 2, 7 & 8						
10	Condensing machine #360	"	44.6	2.5	15	"	No bagging of material at time this sample was taken. Exhaust hood applied over loading trucks.
12	Dept. 2 Between cards 1 and 7, machines #232 and 242, at take-off side.	3/20/39	42.0	1.7	6	"	
14	Between cards 7 and 13, machines #232 and 242, saddle side.	"	44.0	2.6	15	"	
11	Between cards 3 and 9, machines #255 and 261, at take-off side	"	42.0	3.0	12	"	
13	Between cards 9 and 15, machines #234 and 248, saddle side	"	43.5	1.7	8	"	
16	Between cards 5 and 12, machines #237 and 253, take-off side.	"	43.5	2.3	14	"	
15	Between cards 12 and 18, machine #264, saddle side	3/21/39	43.5	1.8	10	"	
	Between cards 16 and 22, machines #266 and 270, take-off side.	3/20/39	35.6	1.8	12	"	
18	Between cards 13 and 20, machines #258 and 267, take-off side.	"	36.0	2.2	10	"	
19	Between cards 17 and 23, machines #271 and 276, take-off side.	3/21/39	51.5	1.1	7	"	
Mule Spooling Dept.							
20	Between mules 1 and 2	3/17/39	29.0	2.7	10	"	
21	Between mules 5 and 6	"	34.0	2.7	16	"	
22	At Whitin spoolers, machine #113	"	34.0	3.2	20	"	Both Whitin spoolers now enclosed and exhausted.

02730

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Total Count of Millions of Particles per cu. ft. air sampled	Type of Unit	Remarks
Spooling, Twisting and Weaving 1st Floor						
26	Between twistars, machines #657 and 658	3/16/39	34.0	2.6		
27	Between twistars, machines #651 and 652	"	44.0	2.6		
40	At spoolers, machines #603 and 613	"	42.0	3.6		
28	At Universal winders	"	36.0	1.8		
29	At looms 4 and 2; machines #1026 and 1021, 3/17/39 operator's position	3/17/39	43.5	3.4		
30	At looms 11 and 10, machines #1031 and 1028	"	34.0	1.4		Loom #10 not operating.
31	At looms 6, 7, 8 and 9; machines #1013, 1032, 1040 and 1041	3/16/39	43.5	3.3		Loom #3 not operating; water sprays shut off; dry weaving.

7.18 "

3.6

02731

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Total Count of Millions of particles per cu. ft. air sampled	Type of Dust	Remarks
BRASS BAND REPAIR ROOM						
32	At looms #1 and 10	3/17/39	28.0	4.9		Warp is treated with emulsion.
33	At loom #2, machines #322	"	46.5	2.5		Warp weaving.
34	Between #33 and 13 looms; machines #339 and 325.	3/14/39	44.0	1.1		Loom #19 - warp is treated with emulsion loom #33 not overhauling.
35	Between #14, 26, 7 and 12 looms	3/17/39	63.0	4.7		Only #12 loom overhauling with warp passing through water.
36	At inspection table	3/14/39	42.0	2.3		Inspecting regular brake band lining, exhaust over brush.

LEAD ANALYSES

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Milligrams of Lead per Cu. Meter	Lead Intake per 10-hr. day	Remarks
37A	At inspection table	3/17/39	42.0	0.148	1.48	
37B	At loom #24	3/14/39	44.0	0.126	1.26	

02782

LEAD ANALYSES

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Millions of Particles per Cu. Ft.	Milligrams of Lead per Cu. Meter	Lead Intake per 10-hr. day	Remarks
Brake Machine Smelting dept.							
42	At calendering machine	3/21/39	33.6	1.7	0.095	0.95	
44	At sanding machine	"	34.6	2.6	0.102	1.02	
47	At drill press	3/22/39	37.4	5.3	0.074	0.74	
43	Machine shop - general air	3/21/39	43.5	1.5	0.07	0.7	
37	Lauleston mixing dept.	3/21/39	17.0	2.4	NEGATIVE		

02733

LEAD ANALYSES

Sample No.	Location of Sample	Date	Cu. Ft. Air Sampled	Millions of Particles per Cu. Ft.	Milligrams of Lead per Cu. Meter	Lead Intake per 10-hr. day	Remarks
<u>Custom Machine Lead.</u>							
50	At Campbell cutter, machine #2321	3/22/39	34.0	4.3	RELATIVE		
51	At Campbell clutch facing segment cutter, machine #1156	"	35.6	2.5	0.06	3.6	Exhaust applied to this operation.
52	Hand sanding tables	"	27.0	5.0	0.261	2.61	9 vacs now working as compared with 5 in 1938.
53	Dept. B59 - center of mandrels	"	31.0	2.2	0.07	0.7	
54	Pratt and Whitney surface grinder, machine #2340	"	34.2	5.6	0.124	1.24	This machine exhausted.
57	At Gardner grinder #11, machine #1566	"	29.6	8.8	0.07	0.7	This machine exhausted; at times pieces being ground are too large for hood and the operator then raises the hood, defeating the purpose.
58	At Blanchard grinders machines #1579 and 1675	"	27.3	9.3	0.459	4.59	
60	Between Gardner grinder #75 and #2 drill, machine #1598	"	42.0	3.1	0.233	2.33	The dust collector now located outside the department.
62	Drilling machine #2346 and 1654	"	43.0	1.8	0.389	0.89	This machine exhausted.
63	Segment grinding, machine #2257	"	42.0	2.8	0.324	3.24	This machine has been relocated and exhausted since 1938 survey. Formerly sample #49.
64	Lathe sander, machine #733	"	40.3	2.9	0.138	1.38	This machine exhausted.

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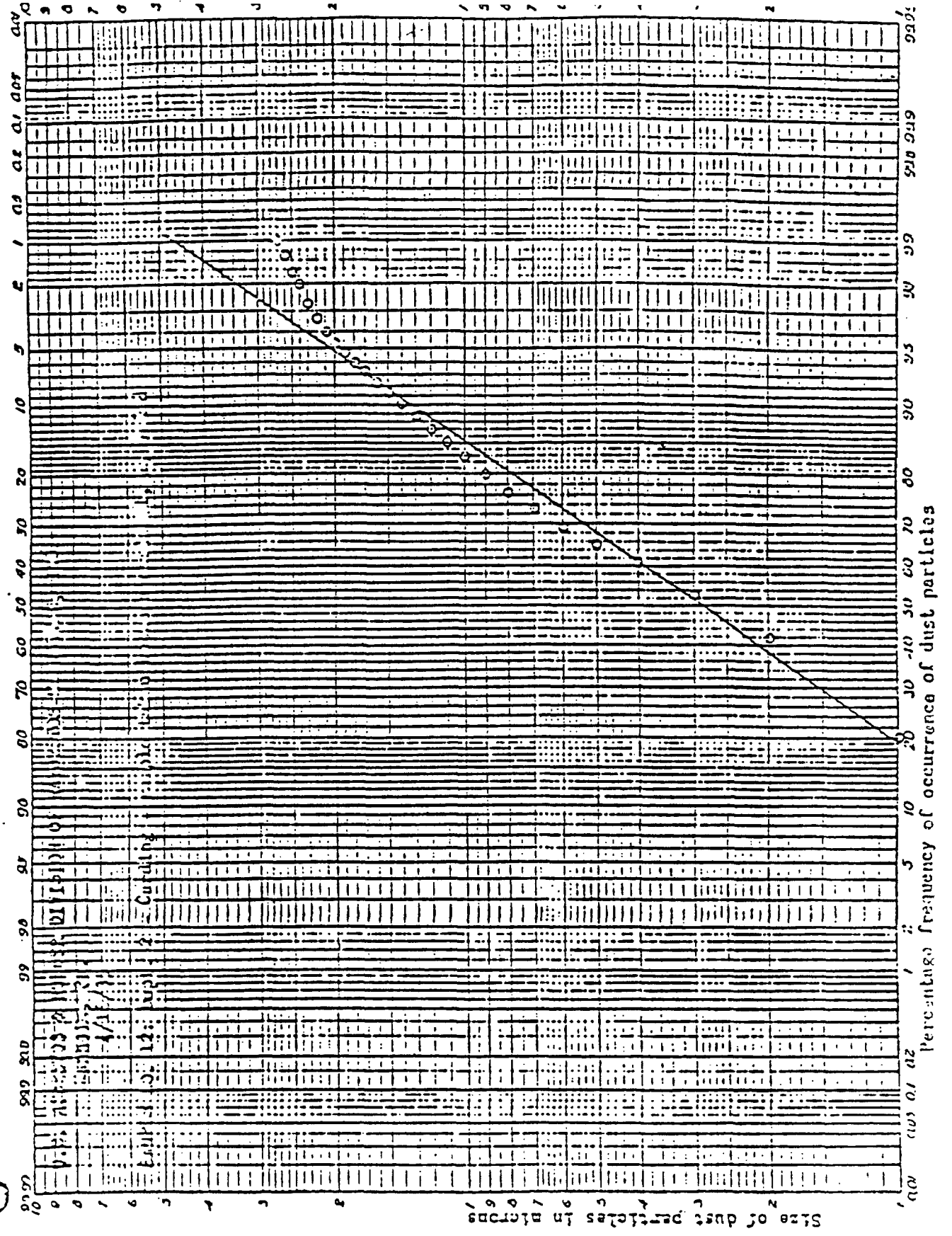
CONCLUSIONS AND RECOMMENDATIONS

The dust concentrations are comparable to those found in the 1973 survey.

Lead concentrations in general are lower. This may be due to increased efficiency of exhaust systems or the material being worked may have a lower lead content.

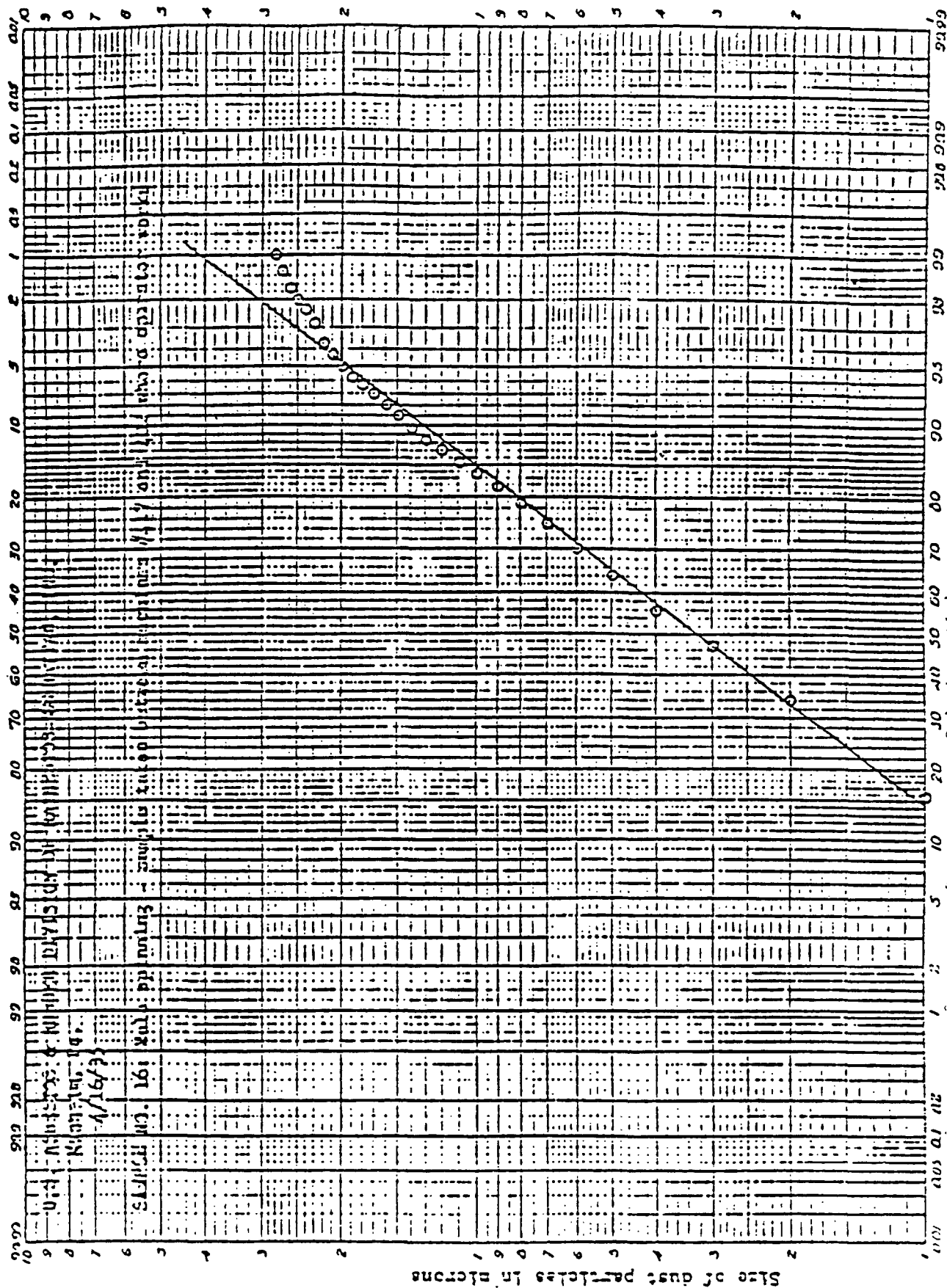
It is suggested that the present program of extending and improving exhaust equipment be continued.

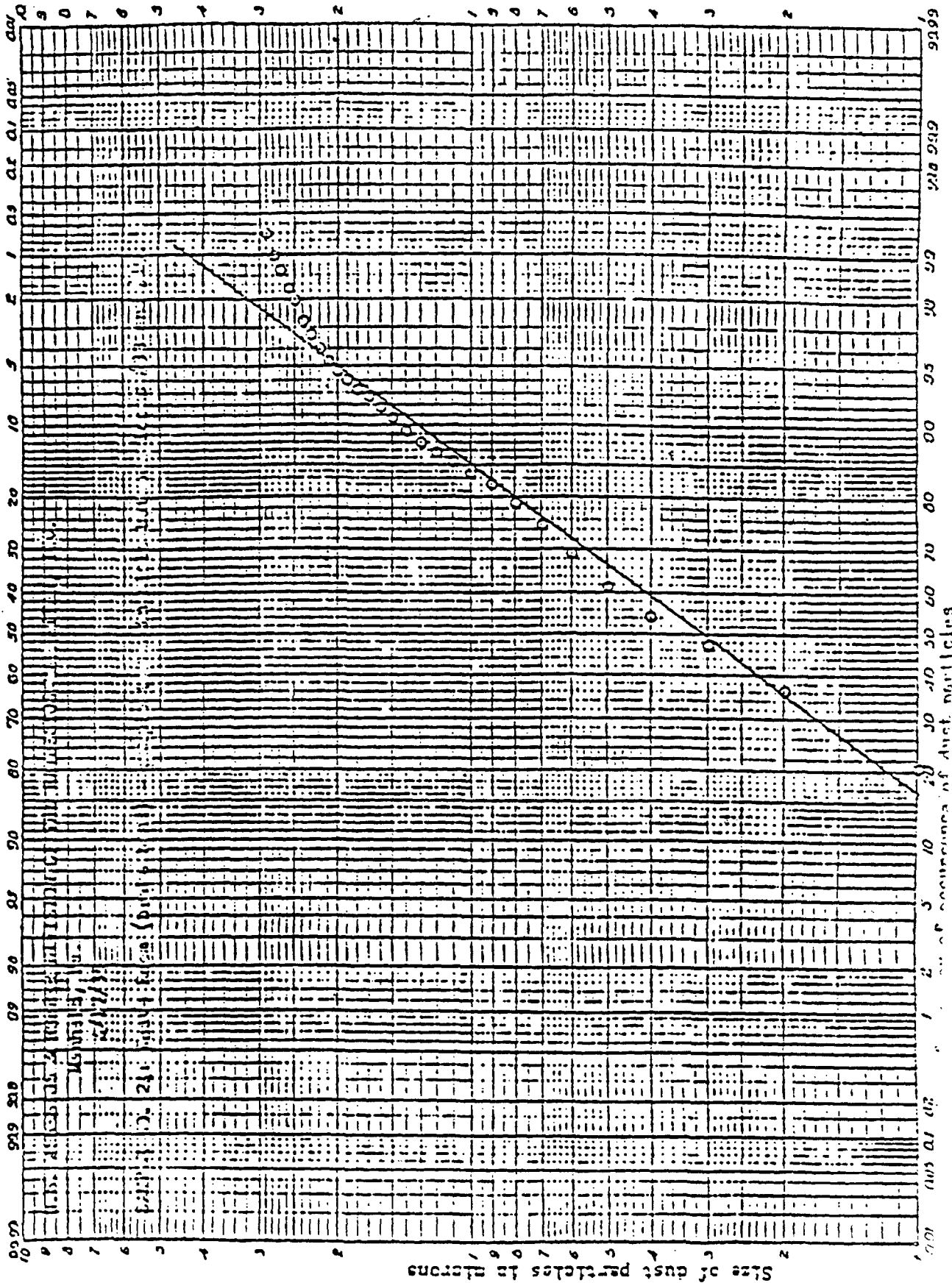
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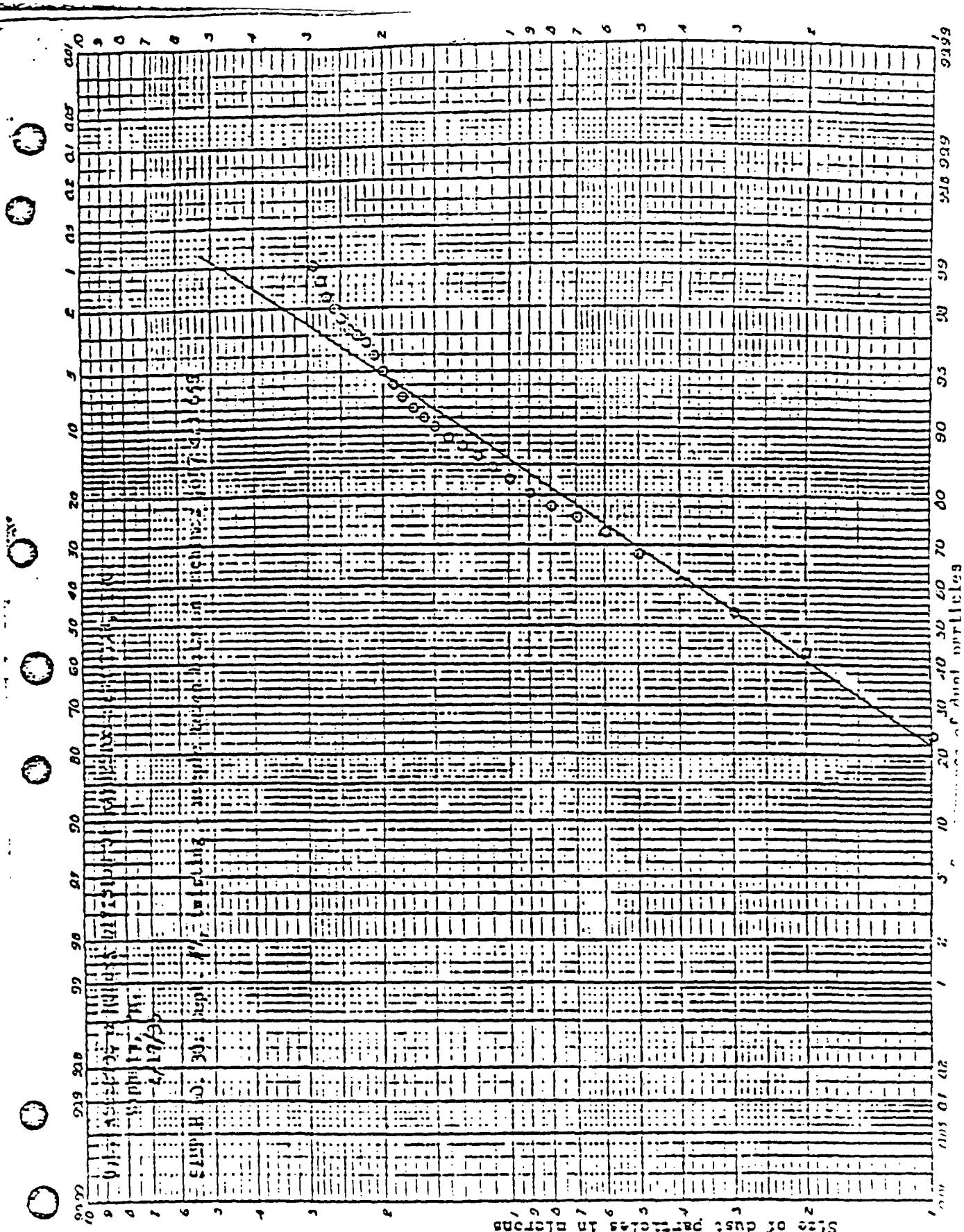
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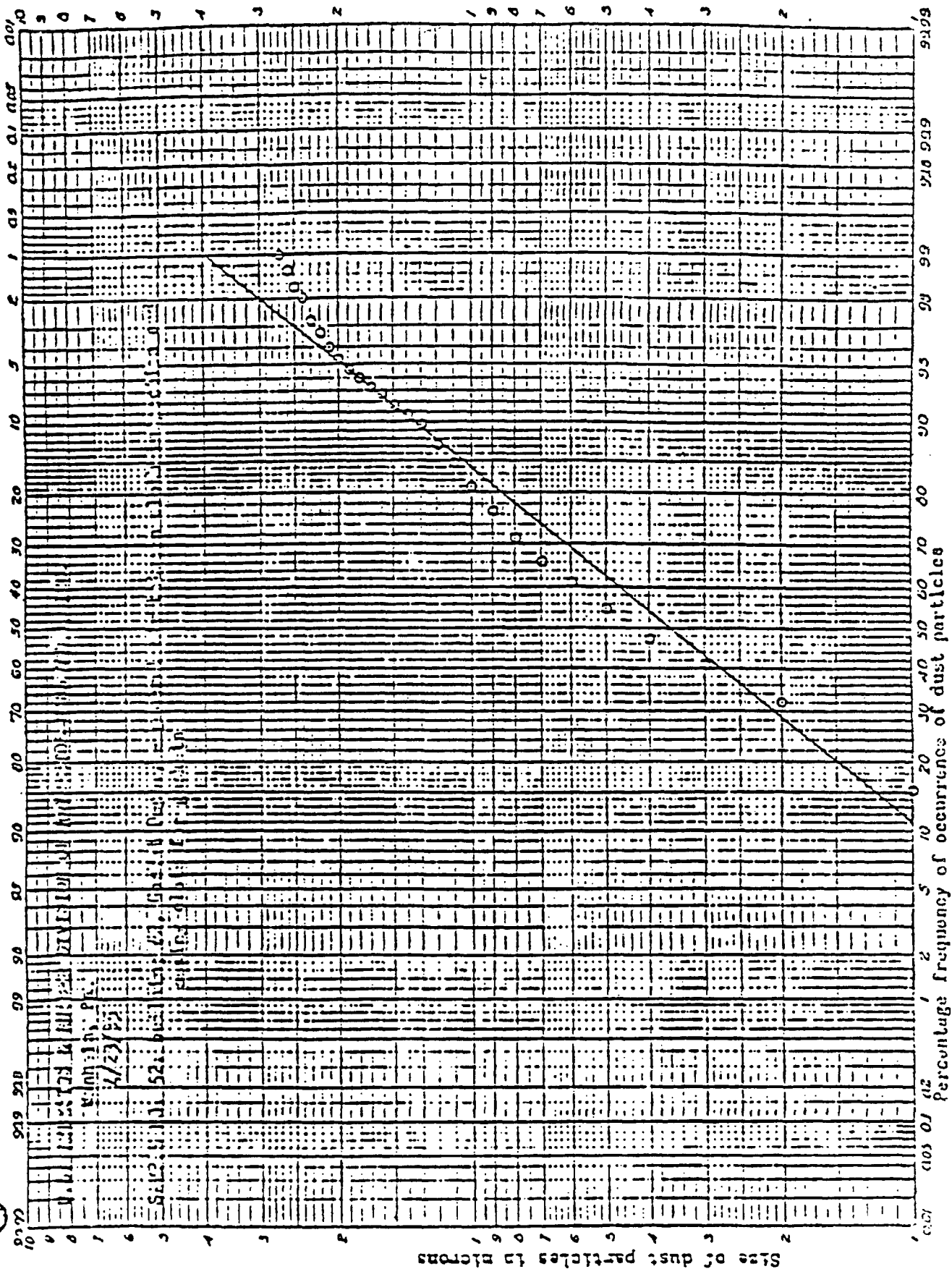


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