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RESULTS OF U.S.P.H.S. SURVEY AT AMERICAN BRAKE SHOE, WINCHESTER, VIRGINIA

NATIONAL INST. FOR OCCUPATIONAL SAFETY
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SURVEILLANCE, HAZARD EVALUATIONS AND
FIELD STUDIES

MAY 1971



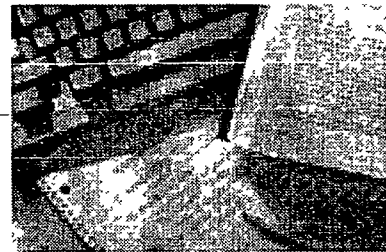
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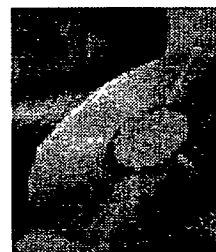
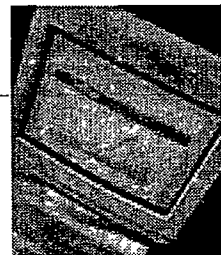
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RESULTS OF U.S.P.H.S. SURVEY

AMERICAN BRAKE SHOE
Winchester, Virginia

IWS-32,25c

May, 1971

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RESULTS OF U.S.P.H.S. SURVEY

AMERICAN BRAKE SHOE

WINCHESTER VIRGINIA

SURVEY DATE: MAY 1971

OPERATION AND JOB	PERSONAL SAMPLES	
	SAMPLE #	CONCENTRATION FIBERS 5 /cc
210 <i>Mixing, Coating & Extruding</i>		
Mixer	219	1.4
Mixer	220	0.4
Mixer	221	1.5
Mixer	222	0.0
Mixer	223	0.2
Mixer	224	0.6
Mixer	225	0.5
Mixer	226	0.5
Mixer	227	0.3
Mixer	228	0.4
Preformer	193	1.1
Preformer	194	8.4
Preformer	195	2.9
Preformer	196	5.7
Preformer	197	1.5
Preformer	198	3.4
Preformer	199	6.5
Preformer	205	1.2
Strip former	235	0.7
Strip former	236	0.3
Welgher	5	1.5
Welgher	7	1.1
Welgher	8	0.5
Welgher	9	0.8
Welgher	23	0.5
Compound Operator	2	1.6
Compound Operator	3	0.9
Hammer Mill Operator	21	0.7
Scale Repairman	6	1.3
Mix Inspector	4	0.8
Forklift Operator	1	1.1

American Brake Shoe
Winchester Virginia
Survey Date: May 1971
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OPERATION AND JOB		PERSONAL SAMPLES	
		SAMPLE #	CONCENTRATION FIBERS >5w/cc
220	Forming		
	Strip Roller	99	5.2
	Strip Roller	100	5.0
	Strip Roller	101	2.3
	Strip Roller	105	1.7
	Strip Roller	107	0.8
	Strip Roller	239	0.3
	Strip Roller	240	0.5
	Shoe Former	27	1.5
	Shoe Former	49	1.3
	Shoe Former	51	0.0
	Shoe Former	52	3.3
	Shoe Former	53	1.4
	Shoe Former	54	1.8
	Shoe Former	55	1.3
	Shoe Former	56	0.6
	Shoe Former	58	4.7
	Serviceman	50	0.9
	Bender Operator	19	0.3
	Bender Operator	24	0.5
	Bender Operator	108	5.1
	Bender Operator	110	1.5
	Bender Operator	111	0.3
	Bender Operator	112	2.8
	Hammer Mill Operator	20	0.4
	Maintenance	18	0.5
	Hand Roll Former	97	3.0
	Hand Roll Former	106	2.8
	Quality Control	98	1.3
230	Hot Pressing		
	Hot Press Operator	26	0.8
	Hot Press Operator	29	7.0
	Hot Press Operator	30	0.2
	Hot Press Operator	31	0.6
	Hot Press Operator	33	3.0
	Hot Press Operator	34	0.5
	Hot Press Operator	35	0.4

American Brake Shoe
 Winchester Virginia
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OPERATION AND JOB	PERSONAL SAMPLES	
	SAMPLE #	CONCENTRATION FIBERS >5 μ /cc
230 Hot Pressing (continued)		
Hot Press Operator	36	0.8
Hot Press Operator	37	0.5
Hot Press Operator	38	0.3
Hot Press Operator	39	0.4
Hot Press Operator	40	2.4
Hot Press Operator	43	0.6
Hot Press Operator	44	1.0
Hot Press Operator	47	0.7
Hot Press Operator	169	4.0
Hot Press Operator	176	0.1
Hot Press Operator	184	0.6
Hot Press Operator	188	0.5
Hot Press Leader	192	0.5
Hot Press Foreman	180	1.2
Hot Press Duster	28	3.0
Hot Press Service	46	0.5
Hot Press Service	177	1.1
Material Mover	41	3.6
Material Mover	42	0.5
Furnace Man	32	0.7
Hot Press Mechanic	191	0.2
Hot Press Set-Up Man	25	0.2
Sweeper	48	0.8
240 Baking		
Oven Loader	16	1.5
Oven Loader	60	1.2
Oven Loader	102	1.4
Oven Loader	104	1.1
Oven Loader	171	1.4
Oven Loader	178	1.1
Oven Loader	182	2.1
Oven Loader	186	0.8
Oven Loader	217	1.3
Oven Loader	237	0.3
Oven Loader	238	0.3
Oven Loader	241	1.4
Oven Loader	242	2.0

American Brake Shoe
 Winchester Virginia
 Survey Date: May 1971
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PERSONAL SAMPLES		
OPERATION AND JOB	SAMPLE #	CONCENTRATION FIBERS >5µ/cc
240 Baking (continued) Oven Helper	15	0.6
250 Grinding & Sanding		
Surface Grinder	114	1.8
Surface Grinder	131	2.7
Surface Grinder	132	4.3
Surface Grinder	133	1.9
Surface Grinder	162	4.0
Surface Grinder	163	1.7
Surface Grinder	166	2.6
Surface Grinder	168	0.2
Edge Grinder	69	3.3
Edge Grinder	70	2.6
Edge Grinder	164	0.5
Radius Grinder	88	0.7
Radius Grinder	148	5.0
Radius Grinder	160	0.7
Radius Grinder	161	0.8
Radius Grinder	167	2.6
Core Grinder	125	1.0
Blanchard Grinder	59	4.1
Grinder	61	1.1
Grinder	93	2.2
Grinder	103	1.5
Grinder	134	2.7
Grinder	135	3.6
Grinder	141	5.1
Finisher	71	2.8
Finisher	72	2.2
Finisher	212	0.5
Sander	68	5.8
Sander	213	1.4
Grinding Leader	145	1.0
Inspector	62	17.5
Forklift Operator	136	1.4
Forklift Operator	146	1.0
Forklift Operator	165	1.4
Foreman	139	2.7

American Brake Shoe
 Winchester Virginia
 Survey Date: May 1971
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OPERATION AND JOB	PERSONAL SAMPLES	
	SAMPLE #	CONCENTRATION FIBERS >5μ/cc
260 Cutting and Drilling		
Do-All Saw Operator	57	1.0
Do-All Saw Operator	109	0.8
Do-All Saw Operator	113	1.8
Do-All Saw Operator	116	0.7
Do-All Saw Operator	117	3.2
Do-All Saw Operator	118	0.6
Cutter Operator	206	1.1
Core Saw Operator	121	1.2
Core Saw Operator	123	3.3
Core Saw Operator	214	0.7
Ripper	65	5.4
Ripper	122	3.2
Ripper	130	2.8
Ripper	140	4.8
Semi-Auto Drill Operator	79	0.4
Semi-Auto Drill Operator	80	3.6
Automatic Drill Operator	84	0.6
Automatic Drill Operator	83	0.9
Automatic Drill Operator	85	0.7
Automatic Drill Operator	87	0.6
Automatic Drill Operator	90	0.6
Automatic Drill Operator	147	1.6
Automatic Drill Operator	149	4.8
Automatic Drill Operator	150	0.4
Drill Press Operator	67	2.0
Drill Press Operator	152	0.6
Drill Press Operator	157	0.3
Drill Operator	164	3.3
Drill Operator	143	2.8
Drill Operator	144	3.3
Drill Operator	158	0.2
Drill Leader	66	0.8
Counterbore Operator	63	0.8
Drill Inspector	159	1.2
Set-Up Leader	82	1.2
Maintenance	91	0.0
Production Helper	86	0.6

American Brake Shoe
 Winchester Virginia
 Survey Date: May 1971
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OPERATION AND JOB	PERSONAL SAMPLES	
	SAMPLE #	CONCENTRATION FIBERS >5 μ /cc
270 Bonding and Riveting		
Bonder	170	0.7
Bonder	172	0.6
Bonder	173	0.5
Bonder	183	0.3
Bonder	185	0.5
Bonder	234	0.9
Adhesive Applicator	230	1.7
Adhesive Applicator	231	5.7
Adhesive Applicator	232	2.5
Riveter	75	2.7
Riveter	81	0.8
Riveter	233	0.9
280 Inspection and Packing		
Brander	151	1.1
Brander	153	0.4
Brander	154	0.7
Brander	155	0.6
Inspector	73	0.6
Inspector	84	0.1
Inspector	889	0.7
Inspector	94	0.7
Inspector	156	1.9
Inspector	181	0.5
Inspector	190	1.5
Inspector	215	0.8
Painter	76	1.7
Painter	77	0.6
Painter	78	2.0
Painter	124	4.6
Painter	126	0.6
Painter	127	0.8
Painter	128	0.7
Painter	129	3.4
Painter	142	3.7
Packer	92	1.3
Packer	95	0.4
Packer	96	0.4

American Brake Shoe
Winchester Virginia
Survey Date: May 1971
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OPERATION AND JOB	PERSONAL SAMPLES	
	SAMPLE #	CONCENTRATION FIBERS >5 μ /cc
280 <i>Inspection and Packing (continued)</i>		
Shipping Clerk	179	0.3
Shipping Foreman	187	0.2
Spray Booth Operator	201	2.4
Spray Booth Operator	202	2.2
Spray Booth Operator	203	1.5
Drying Oven Loader	218	1.1
Forklift Operator	174	0.0
Forklift Operator	175	0.4
290 <i>Miscellaneous</i>		
ABK Lathe Operator	207	1.7
ABK Lather Operator	208	0.9
ABK Lathe Operator	209	0.4
ABK Finisher	210	1.0
ABK Finisher	211	1.0
ABK Pressing	216	0.7
Die Cleaner	204	1.5
Quality Control Lab Technician	10	1.3
Quality Control Lab Technician	13	0.9
Quality Control Lab Technician	14	0.3
Pilot Plant Operator	11	1.2
Pilot Plant Operator	12	1.6
Pilot Plant Operator	100	1.3
Rubber Mill Operator	17	1.0

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SUMMARY TABLE
AMERICAN BRAKE SHOE
WINCHESTER VIRGINIA
SURVEY DATE: MAY 1971

OPERATION & NUMBER OF SAMPLES ()	CONCENTRATIONS, FIBERS >5µ/cc					
	LOW	HIGH	MEAN	% CONC. 2	% CONC. 5	% CONC. 10
Mixing, Coating, Extruding (31)	0.0	8.4	1.6	16.1	9.7	0.0
Forming (28)	0.0	5.2	1.8	32.1	10.7	0.0
Hot Pressing (30)	0.1	7.0	1.2	20.0	3.3	0.0
Baking (14)	0.3	2.1	1.2	14.3	0.0	0.0
Grinding & Sanding (35)	0.2	17.5	2.7	51.4	11.4	2.9
Cutting & Drilling (37)	0.0	5.4	1.7	32.4	2.7	0.0
Bonding & Riveting (12)	0.3	5.7	1.5	25.0	8.3	0.0
Inspection & Packing (32)	0.0	4.6	1.2	18.8	0.0	0.0
Miscellaneous (14)	0.3	1.7	1.1	0.0	0.0	0.0

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Author(s) Anonymous				6. NA	
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Sponsoring Organization Name and Address Same as Above				10. Project/Task/Work Unit No NA	
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Abstract (Limit 200 words)

Air sampling for asbestos (1332214) dust was conducted by the United States Public Health Service at the American Brake Shoe Company (SIC-3292) in Winchester, Virginia, during May, 1971. The concentration of fibers greater than 5 microns in length per cubic centimeter (f/cc) ranged from unmeasurable to 8.4f/cc for the mixing, coating, and extruding area; up to 5.2f/cc for the forming area; 0.1 to 7.0f/cc for hot pressing operations; 0.3 to 2.1f/cc for the baking area; 0.2 to 17.5f/cc for grinding and sanding operations; up to 5.4f/cc for the cutting and drilling work area; 0.3 to 5.7f/cc for bonding and riveting operations; unmeasurable to 4.6f/cc for the inspection and packing zone; and 0.3 to 1.7f/cc for miscellaneous operations.

Document Analysis & Descriptors

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