

LOCKWOOD'S DIRECTORY

*of the Paper, and
Allied Trades*

(Reg. U. S. Pat. Off.)

Issued Annually — 85th Edition

1960

PRICE, \$12.00

R. E. THUEMMEL
Editor

F. B. GROSS
Production Manager

John C. W. Evans, Consultant

LOCKWOOD TRADE JOURNAL CO., INC.
49 West 45th Street, New York 36, N. Y., U. S. A.
Phone: PLaza 7-2370 Cable: Lockmin

Publishers also of
PAPER TRADE JOURNAL
and
TECHNICAL BOOKS

(Copyright, 1959, by Lockwood Trade Journal Co., Inc.)

PLAINTIFFS'
EXHIBIT ALB-1

Vallace and Graham, P.A.

FEEDERS—Continued

Goolds Pumps, Inc. (Boiler Water)
Gump, B. F. Co. (Dry and Starch)
Scott Miller, Inc. (Bark Storage
Bins and Feeding Machines)
Indico, Inc.
Kennedy-Van Sand Mfg. & Eng.
Corp.
Kiefer & Mueller, Inc. (Boiler)
Madden Corp. (Chemical)
Merrick Scale Mfg. Co. (Constant
Weight for Salt Cakes, etc.)
National Iron Co. (ASTON)
Permut Co. & Div. of Praudier
Permut Inc. (Wet and Dry)
Roy, Milton, Co. (Hydrogen Per-
oxide)
Simplicity Engineering Co. (Vi-
brating and Pan)
Syntron Co. (Vibratory; Also Dry
Feeder Machines of the Volum-
etric and Weighing Type)
Trove-Plus Products, Inc.
Waldron & Co., Inc.
Weber, H. G. & Co., Inc.
Webster Mfg. Inc. (Rotary Plate)
Williams & Wilson, Ltd.

FELT CLEANING COMPOUNDS

Adell Chemical Co., Inc.
Allied Chemical Corp. National
Aniline Div.
Amalgamated Chemical Corp.
Antara Chemicals Sales Div. of
General Aniline & Film Corp.
Berkshire Color & Chemical Corp.
Calgon Co., Div. of Egan Chemi-
cals & Controls, Inc.
Cowles Chemical Co.
Diversy Corp.
Drey, E. F. & Co., Inc.
DuBois Chemical
Gamlen Chemical Company
Hart & Harrington, Inc.
King, E. F. & Co., Inc.
Magnus Chemical Co.
Magnuson Products Corp.
Miller, Harry, Corp.
Nopco Chemical Co.
Oakite Products, Inc.
Pioneer Chemical Works, Inc.
Quaker Chemical Products Corp.
Taylor, R. W. & Co.
Wica Chemicals Inc., Paper Chem-
icals Dept.

FELT CONDITIONERS

Bird Machine Co.
Broughton, A. E. & Co. (Hydrauli-
cally operated)
Canadian Ingersoll-Rand Co.
Magnus Chemical Co., Inc.
Miller, Harry, Corp.
Mount Hope Machinery Co. (Felt
Pressers)
National Chemical Sales Corp., Div.
Bruno & D'Elia, Inc.
Sandy Hill Iron & Brass Works
(Schofield Patent)

FELT DRYING SYSTEMS

Black-Clawson Co., Paper Machine
Div.

DeW Engineering Co.
Jamar-Oliver Co.
Ross, J. O., Engineering Div.
Midland-Ross Corp.

FELT ROLLS

Allied Chemical Canada, Ltd.
Ames American Co. (Rubber Cov-
ered)
Black-Clawson Co., Paper Machine
Div.
Chromium Corp. of America
(Chromium Plated)
Continental Rubber Works (Plain
and Wormed)
Dominion Engineering Co., Ltd.
Hunt Rodney, Machine Co.
Jakes Co.
Jonas Inc.
Kokoosa Foundry & Machine
Works, Inc.
Patterson Mfg. Co., Inc.
Sandy Hill Iron & Brass Works
Stewe-Woodward, Inc. (Rubber Cov-
ered, Plain and Wormed)
Tyer Rubber Co. (Rubber Covered,
Plain and Wormed)

FELTS

Abney Mills, Brandon Dryer Felt
Mill (Dryer, All Cotton, Asbestos
and Asbestos Faced)
Albany Felt Co. (Pulp, Paper,
Board and Asbestos Cement Ma-
chine)
Albany Felt Co. of Canada, Ltd.
(Pulp, Paper and Board Ma-
chine)
Allied Chemical Canada, Ltd.
American Felt Co. (Vibration
Dampening, Oil Retaining and
Other Mechanical Felts)
Appleton Woolen Mills (Woven-
Specialized Applications for All
Types of Pulp, Paper, Board and
Tissue Machines)
ASTON-HILL Mfg. Co. (Dryer)
Ayers Limited (Dryer, Press, Pulp,
Wet Woven Woolen)
Bunge Pulp & Paper Co.
Draper Bros. Co. (Woven Woolen
for All Kinds of Paper Ma-
chines)
Drycar Felt Co. (All Kinds of
Papermakers' Felts; Also Filter
Felts of All Types of Synthetic
Fibers)
Hooper, Wm. E. & Sons Co. (Cot-
ton and Asbestos Drier)
Huyak Felt Co. (Pipe, Pulp, Shingle
and Papermakers, All Types)
Kenwood Mills, Ltd. (Woolen
Papermakers, All Types)
Knox Woolen Co. (Paper Machine)
Krugger, R. O. & Co. (Packing
Felt for Screens, Grinders, etc.,
Felt Insulation, Gaskets, Strips,
Cut to Size for all Industrial
Purposes)
Lockport Felt Co. (Papermakers)
Mertel Felt Corp. (Papermakers)
Moray Paper Mill Supply Co.
(Dryer, Asbestos, and All-Cot-
ton, Clipper Seams)

For Addressee See Page 1490

PLAINTIFFS'
EXHIBIT ALB-2

Wallace and Graham, P.A.

FELTS—Continued

Mt. Vernon Mills, Inc. (Drier: Cotton, Synthetic, Asbestos)

Orr Felt & Blanket Co. (Woolen and Synthetic Blends)

Philadelphia Felt Co. (All grades for Fourdrinier and Cylinder Machines: Pick-up, Press, Bottom and Top)

Porretta & Spencer (Canada) Ltd. (For Pulp and Paper Making Machinery)

Scapa Dryers, Inc. (Synthetic Reinforced Cotton and Synthetic Reinforced Asbestos Driers)

Shuler & Benninghofen (Pulp—Mechanical and Chemical, Asbestos, Board—Top and Bottom, Tissue, Web, Press, Pickup, Yankee Top, Woolen Drier, Strainer, Binder Board, Roading, Save All, Suction Press)

Simon, Henry, Ltd.

Turner Halsey Co. (Cotton Drier, Asbestos Drier)

Waterbury, H. & Sons (Woolen, for Pulp, Paper and Board Machines)

Waterbury Felt Co.

FENCING

American Steel & Wire Div., U. S. Steel Corp.

FERRIC CHLORIDE

Dow Chemical Co.

FIBER CONTAINER MACHINERY

Langston, Samuel M. Co. (Shipping, Corrugated)

Machinery & Products Engr. Corp. (Convolute Drums)

Swift, George W. Jr., Inc. (Corrugated and Solid Fiber)

FIBER-GLASS

L.O.F. Glass Fibers Co. (For Reinforcing Paper, Tape, Twine)

FIBER MAKING MACHINERY

Noble & Wood Machine Co.

FIBER SELECTORS

Noble & Wood Machine Co.

FIBERS

Franklin Fibra-Lamite Corp. (Hard Vulcanized Sheets, Rods, Tubes)

Rayon Processing Co. of R. I. (Natural and Synthetic)

FIBERIZERS

American Deabrators, Inc. (Asplund for Non-Chemical and Chemical Continuous Pulping)

Bauer Bros. Co.

Gründler, Gruber & Pulverizer Co. (Waste Wood)

Jackson & Church Co.

Rietz Mfg. Co.

Sheppard Plate & Machine Works (Deabrating Segments)

Sherbrooke Machineries Ltd.

FIELD ERECTION

American Pipe & Construction Co., Northwest Div.

Graver Tank & Mfg. Co.

Kalghin & Hughes, Inc.

Nooter Corp.

FILES

Sandvick Steel Inc. Sandvick Saw & Tool Div. (Chain Saw)

FILING MACHINES

Foley Mfg. Co., Inc. (Hand, Band and Circular Saws)



HAM FELTZ says:

YOU CAN'T BEAT

Hamilton
FELTS

SHULER &
BENNINGHOFFEN
HAMILTON,
OHIO

300 PROVED STYLES
OR CUSTOM-MADE TO YOUR NEEDS

PLAINTIFFS'
EXHIBIT ALB-3

Vallace and Graham, P.A.

MAR 2 1975

H. Flint

M. Josef

3/22/75

W. H. Dutt

ACRYLIC WIRE ASBESTOS SUBSTITUTE

Since we have elected to make across-the-board change on the acrylic wire substitute for asbestos wire, it would be desirable to compare our yarn structure to that used by NF.

Would you please take the following action:

- 1) If you do not now already have samples of the Nordiska yarn please obtain them.
- 2) Compare the stress/strain and other physical characteristics of NF's yarn to the product being made by St. Stephen.
- 3) Review the results with MJ and me.

If you have to request sample from NF, do it via Telex to Wille Grondahl.

WHDutt:ssb

4/26 - done yet?

WHD

PLAINTIFFS'
EXHIBIT ALB-4

Wallace and Graham, P.A.

ALB00279

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: H. Flint

Copies To: WHDutt
TAYurkiewicz
WAGoodwin
OCStevens
JFLongo
FJZanette

Date: July 19, 1975

From: M. JosefSubject: Project No. 18-68
Evaluate Substitute for Asbestos

As we discussed, please go ahead with yarn trials to develop a high temperature yarn that we can technically and economically substitute for the present Raybestos yarn used as filling in spun warp, hi temp dryer felts.

Several alternatives we discussed were -

1. a spun acrylic yarn twisted around the phosphor bronze wire - possibly with a polyester multifilament yarn for strength in winding and weaving.
2. to keep the percent synthetic content low in this yarn you mentioned, we could investigate the use of glass, a non-synthetic material.

I think we both agree that the metal wire is still necessary to maintain a stable width in the felt. Albany Felt is still actively pursuing the patent application on the wire content yarn.

A substitute for asbestos seems very feasible since it's the warp yarn that is the key to the felt and the filling in those styles "just goes along for the ride". The warp yarns receive the heat and abrasive wear, not the filling yarn (as is the case in Style 5702).

We'll handle the yarn trials on a FWO basis in the Albany Plant.

Let's not get into the marketing-price of felt considerations at this time. Please request yarn cost studies as the trials are developed.

The cost of the asbestos yarn is \$2.80 per lb. and far outweighs the amount of relatively inexpensive warp yarn used. On a cost basis, the filling yarn used in an average felt of style 5878 costs about 6 times the cost of the warp yarn - and the warp is the key to a long life on the paper machine.

As we discussed, we would expect the use of asbestos to decrease greatly in future use in the dryer felt industry.

I'd appreciate the help and suggestions of the other people receiving this memo.

MJJosef:elg

Mike

PLAINTIFFS'
EXHIBIT ALB-5

Wallace and Graham, P.A.

ALB00271

REQUEST FOR MANUFACTURE OF NEW YARN

AUG 1975

DATE 8/4/75

TO: YARN SCHEDULING - ALBANY - D. LARGE - C. BULLETT
ST. STEPHEN - R. HENDRICKS

QUALITY - D. BOYER, ALBANY • J. ELLIOT, ST. STEPHEN
RES. & SERVICES - ~~J. DORNBORF~~
TECHNICAL DEPT. - ~~R. H. ROOT~~ *R.H. Root* *Mike Josef*
YARN PREP. - ~~R. H. ROOT~~ *A. Pettes*
YARN MAKING - ~~R. H. ROOT~~ H. RUBINO

FROM: *R. H. Root / H. Flint*

☒ WET FELTS
☒ IND. FABRICS
☒ PAPER MACHINE SCREEN FABRICS

SUBJECT: NEW YARN REQUEST

PLEASE MAKE THE FOLLOWING YARN(S) FOR ☒ EXPERIMENTAL USE
☐ TO BE USED AS STANDARD YARN

TO BE MANUFACTURED IN ☒ ALBANY ☐ ST. STEPHEN
BLUE YARN NECESSARY ☐ YES ☒ NO

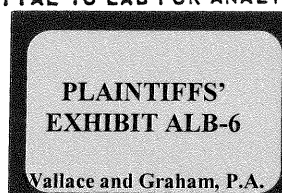
POUNDS NEEDED	WHEN NEEDED	DESCRIPTION
50 lbs	A.S.A.P.	X100 2A 41700S (7.0 denier - 100MM Dralon T for stuffer pick trials in EX 788)
50 lbs	A.S.A.P.	30 2A 41700M (7.0 denier - 100MM Dralon T for twisting trials with phosphor bronze wire to replace asbestos/wire)

SPINNING

- ☐ SUBMIT SAMPLES TO LAB FOR ANALYSIS
☐ SUBMIT SAMPLES TO REQUESTOR FOR TRANSMITTAL TO LAB FOR ANALYSIS

LABORATORY

- ☐ MAKE STRESS - STRAIN, SIZE, TWIST ANALYSIS



ALB00196

Richard H. Root
AUTHORIZED SIGNATURE

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: M. J. Josef

Copies To: WHDutt

Date: August 22, 1975

From: H. E. Flint

Subject: Asbestos yarn substitute (Project 18-64)

Two yarn samples of 100% spun acrylic twisted with phosphor bronze wire have been made and are on cops awaiting the weave-out of a current 5881 warp.

For the record, the yarn specifications are as follows:

Sample 1

Three ends 30ZA41700M)
One end .008" phosphor bronze) 352 turns/72" - 1389 grains/100 yds.

Sample 2

Four ends 30ZA41700M)
One end .008" phosphor bronze) 274 turns/72" - 1654 grains/100 yds.

It is expected that the end of warp 7364 in 93 loom will be reached during the week of 8/25, at which time the samples will be woven as filling.

HEFlint:elg

PLAINTIFFS'
EXHIBIT ALB-7

Wallace and Graham, P.A.

ALB00298

WORK REQUEST

trying to replace

C MER, MILL AND DIVISION

Charge to:

9253

Rec'd.

Promised

Date Requested

8/27/71

Report No.

Folder No.

Date Required

DESCRIPTION OF WORK REQUIREMENTS:

Standard yarn tests - Experimental Yarns.

Date Completed

Priority

Priority Approved

BACKGROUND INFORMATION: (INCLUDE REFERENCES, WORK TO BE DONE, REPORT EXCERPTS, ATTACH COPIES OF LETTERS OR REPORTS WHERE NECESSARY, ETC.)

Attached are two samples of yarns which are intended for a possible replacement for asbestos/phosphor bronze filling yarns.

The yarns are as follows:

1) Three ends of 300 grain 100% acrylic spun yarn twisted with one end of .008" phosphor bronze wire.

2) Four ends of 300 grain 100% acrylic spun yarn twisted with one end of .008" phosphor bronze wire.

Please perform standard yarn tests on each.
(Note: Grain weight of each yarn plus wire inset have already been done and copies are attached).

DISTRIBUTION: (SPECIFY)

PLAINTIFFS'
EXHIBIT ALB-8

Wallace and Graham, P.A.

H.E. Hunt
SIGNATURE OF REQUESTOR

ALB00197

ALBANY FELT COMPANY

Weyer notes
INTER-OFFICE MEMORANDUM

To: Rocky Gulotta
Bob Shiland

Copies To: WHDutt
TAYurkiéwicz
PGSmith
MJJosef

Date: August 28, 1975

From: H. E. Flint

Subject: Trials

We have recently made two weaving trials on the ends of two cuts which are now located in the burling dept.

Cut numbers, plus eventual customer and felt numbers are as follows:

1. Asbestos replacement trial

Cut 7364-3, style 5881CP-400 for Weyerhaeuser, Valliant, felt #36936

2. Spun surface 5711 trial

Cut 7167-6, style 5711CP-500 for Brown, Berlin, felt #37468

We wish to point out that these trials should not be cut off, but should be processed with the full cut throughout the burling and finishing operations.

Also, please keep HEF advised of the progress of the cuts.

HEFlint:elg

PLAINTIFFS'
EXHIBIT ALB-9

Vallace and Graham, P.A.

ALB00299

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Floyd Zanette

Copies To: WHDutt
JFLongo
HEFlint
OCStevens

Date: September 5, 1975

From: Mike Josef

Subject: Low Cost Dryer Felt

Dryer Felt Design is creating a project to investigate the production of a low cost (probably low P/V) dryer felt; essentially 100% synthetic.

Before going full steam, I'd like some additional information from marketing before spending development money:

1. What do you estimate as an attractive selling price? This will determine what synthetic materials will be used.
2. What P/V is acceptable to you?
3. What is the estimated market potential?
4. What selling points should be incorporated into this fabric? Do you need a pin seam to sell it? What kind of range of permeabilities?
5. What specific paper grades are you aiming at? Do we need a smooth surface?
6. Have you considered dropping the P/V to what we can afford with styles 5877 or 5878 and going with that?
7. Does the fact that this dryer felt will be 90-100% synthetic pose any problems? What % synthetic did you have in mind?
8. Our present style 5877 sells at \$2.10 per sq. ft. - the IBM report Design's Order Report shows only 12 orders Jan. - Aug. 1975. To me this does not reflect any demand for a cheaper dryer felt.

Would this new less expensive felt have to outperform a 5877? 5877 is now offered in CP and CDP versions. Recently a 5877 completed a record 950 day run at C. Z., St. Francisville. The record with 5877 is excellent and yet sales are minimal. Remember, we're even throwing in a free B-32 seam (to date with a perfect track record) and this end of the product line isn't moving. There were only 2 multifil. seam orders of any style felt in August.

9. Do you want to reevaluate the Marketing Dept. decision to drop cotton Dri-Weaves? Remember, we could not sell too many Dri-Weaves either.

Any additional guidance you can give us will be appreciated.

MJJosef:elg

PLAINTIFFS'
EXHIBIT ALB-10

Wallace and Graham, P.A.

Mike

ALB00220

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Kim Ayan, AFCan

Copies To: WHDutt
MJJosef

Date: September 15, 1975

From: H. E. Flint

Subject: Acrylic/wire yarn

As you may know, we are looking into using a spun acrylic/phosphor bronze combination yarn as a possible substitute for asbestos/phosphor bronze in dryer felts.

We realize that Canada has been using a similar yarn as a partial substitute in style 600 fabrics.

Therefore, could you please arrange to send us a small sample spool of your yarn for testing and comparison purposes, along with your current specifications for the yarn. Thank you.

HEFlint:elg

PLAINTIFFS'
EXHIBIT ALB-11

Vallace and Graham, P.A.

ALB00222

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Floyd Zanette

Copies To: JESmith
WHDutt
JFLongo
HEFlint
OCStevens

Date: September 17, 1975

From: Mike Josef

Subject: Low Cost Dryer Felt

As you know, Dryer Felt Design is working on several alternatives to develop a low cost dryer felt. Harry Flint has been in charge of this project. Harry submitted design information to Accounting to make cost estimates. Attached are Jeff Brown's figures.

1. Style EX831 would use a warp yarn of spun acrylic yarns in combination with a multifilament polyester yarn (to prevent stretching) and use spun acrylic yarns twisted around a bronze wire in the cross machine direction.

The direct labor and material cost is \$1.01 per square foot.

The big savings is in the filling yarn as in EX832.

2. EX832 would use the standard 5878 warp yarn (75% acrylic and 25% HT-Green) and use acrylic wrapped wire in the cross machine direction (same as in EX831).

The cost is \$0.97 per square foot.

3. You can compare these costs to the \$1.49 it now costs us to manufacture our standard 5878 style we sell for \$2.48 per square foot.

One way to increase the P/V of style 5878 would be to replace the asbestos/wire filling with the acrylic/wire filling. Trials would be necessary to compare performance.

Floyd - I would be interested in your comments regarding what direction we should go with this data.

MJJosef:elg

Attachment

Mike

PLAINTIFFS'
EXHIBIT ALB-12

Wallace and Graham, P.A.

ALB00232

SEP 30 1975

AFC-TECHNICAL REPORT(Internal)

DATE: September 23, 1975

SUBJECT	STANDARD YARN TEST - 100% Acrylic Spun Yarn and Wire			
DEPARTMENT	AFC-Laboratory Services - Dept. #19			
CONTROL NO. 19-5681/260	FOLDER NO. 2C1 EAI	P.W.O. NO. 9253-3 hrs.	CHARGE NO.	WRITER <u>A. E. DIX</u>

D I S T R I B U T I O N

1	Requester	<u>H. Flint</u>	
2	AIC Units		
3	Documentary	E. Patenaude	
4	President	J.E. Smith	
5	Technical	<u>W.H. Dutt</u> , J.C. Smith,	W. Wightman
6	Res. & Dev.	<u>E. DeCrosta</u>	
7	Wet Felts	R. Root, W. Gettings, K. McMorris, E. Hahn	
8	Dryer & Plastic Fab.	<u>M. Josef</u>	
9	Indust. Fab.	R. Root	
10	Product Quality	D. Boyer	
11	Technology Development	L. Sherlaw	
12	Laboratory Services	<u>F. Costa</u>	
13	Materials Research	A. Renjilian	
14	Manufact.	T. Yurkiewicz	
15	Sales	F. Zanette	
16	Service Eng.	W. Wightman, D. Bergsma	
17	St. Stephen	W. Goodwin	
18	AIC Tech.	A. Rijken, J. Sweet	

September 23, 1975
Memo. #19-5681/260
FWO-9253-3 hrs.
Folder 2C1

TO: H. Flint

FROM: A. Dix - AFC-Laboratory Services - Dept. #19

SUBJECT: STANDARD YARN TEST - 100% Acrylic Spun Yarn and Wire

BACKGROUND:

Two samples of 100% acrylic spun yarn were submitted to the Laboratory Services Dept. by Dri-Screen Design(H. Flint) for a standard yarn test.

The #1 bobbin consisted of three ends(approx. 300 grs./100yds each) 100% Acrylic spun yarn twisted with one end of .008" phosphor bronze wire.

The #2 bobbin consisted of four ends(approx. 300grs./100yds each) 100% Acrylic spun yarn twisted with one end of .008" phosphor bronze wire.

TEST RESULTS:

	<u>Sample #1</u>	<u>Sample #2</u>	<u>Wire</u>	<u>165C154ZDV FZM</u> (5 Lot Average)
Grains/100 yds.	1365	1648	410	1612
Lbs/end	<u>25.8</u>	<u>33.3</u>	-	13.3
Denier	8,706	10,511	2,615	10,279
GPD	1.3	1.4	-	0.6
% Elongation at BRK	31.2	33.7	-	7.2
% Elongation at 3 lbs.	1.9	1.6	-	1.2
T/72"				
Ply	364-L	384-L	-	696-L
Singles Spun	574-R	551-R	-	581-R
S.Wire	0	0	0	0

AEDix/gn

PLAINTIFFS'
EXHIBIT ALB-14

Wallace and Graham, P.A.

ALB00297

AEY

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: H. Flint

Copies To: WHDutt
KEAnderson
OStevens

Date: October 14, 1975

From: M. Josef

Subject: Asbestos Substitute Trials

At the Sales Staff meeting today it was decided to go ahead with 2 trials in style 5878 dryer felt. (only)

In the trials we would use the 5878 warp yarn and just substitute a spun acrylic/wire filling yarn for the asbestos/wire yarn.

The fabrics will sell for the normal 5878 price. This is a trial to increase the profitability of this style. There is no thought of selling this high synthetic style at a lower price than \$2.45. Please check with the respective salesman for approval for the trial on the 5878 orders.

MJJosef:elg

now #2.65 with
new price increase

Mike

PLAINTIFFS'
EXHIBIT ALB-15

Wallace and Graham, P.A.

ALB00281

MU 75

MEMORANDUM

✓ TO: Mr. Mike Josef
FROM: J. Bliss
SUBJECT: Gang Spun Asbestos Yarn
COPIES: Messrs. L. Paschall, J. Elliott, R. Hendricks

November 12, 1975

① lab test - strength
② make cps + weave
end of warp -

We are sending to your attention a cone of asbestos yarn made by Raybestos which they are pushing to all felt manufacturers. It is similar to our C154 except that it is gang spun instead of twisted and uses an inhibited brass wire core instead of phosphorus bronze. The current price of the gang spun yarn is \$2.25 per lb. and the C154 we are using is \$2.85 per lb. Raybestos says prices will go up on both yarns about 8% the first of the year.

Raybestos has tried to get us to try this yarn before, but we were not satisfied with the quality of the yarn. We felt it was too flaky on the surface. They have since improved the quality and we feel it should be tried at least on a trial basis.

Their term gang spinning is the same as what we call core spinning. They are twisting the asbestos roving around the wire core directly instead of spinning and then twisting. Inhibited brass is brass that has been treated to prevent oxidation which forms the green color on brass. They say they are able to offer a lower price on this yarn for two reasons.

1. Gang spinning costs less than spinning and twisting.
2. Inhibited brass costs less than phosphorus bronze.

They can supply the inhibited brass core in our present yarn and this would also reduce the price to us.

Following is a comparison of test results of the gang spun yarn and current C154.

	<u>Gang Spun</u>	<u>C154</u>
Weight Grains/100 yds.	1527	1606
Twist T/72"	473	684
Strength - lbs/end	13.9	13.8
Elongation @ 3 lbs.	1.0%	1.1%

JWB:iss:jwm

PLAINTIFFS'
EXHIBIT ALB-16

Wallace and Graham, P.A.

ALB00241

received 11/20/75
in lab

November 19, 1975
Memo. #19-5804/819
PWO-9253
Folder 6D1

TO: H. Flint
FROM: E. Quinto - AFC-Laboratory Services - Dept. #19
SUBJECT: EVALUATION OF ASBESTOS REPLACEMENT YARN IN 5881 STYLE FABRIC

BACKGROUND:

A sample of 5881 Style fabric was submitted to the Laboratory for testing by Dryer and Plastic Fabric Design(H.Flint). The fabric contained areas that had been woven with different widthwise yarns. The different yarns were as follows:

<u>Fabric No.</u>	<u>Widthwise Yarn</u>
1	4 ends of spun acrylic/phosphor bronze wire
2	3 ends of spun acrylic/phosphor bronze wire
3	standard asbestos/phosphor bronze wire (165C154ZDVFZM)

OBJECTIVE:

To test the fabrics in regard to:

1. Air Permeability(cfm/sq.ft.at $\frac{1}{2}$ "H2O Pressure)
2. Fabric weight(oz/sq.ft.)
3. Diagonal stress/strain
4. End count
5. Strength(lbs/in. - 1" strips)
6. % Elongation at break
7. Stiffness

TEST RESULTS:

Air Permeability:

CFM/sq.ft.at $\frac{1}{2}$ "H2O Pressure

	<u>VARIATION</u>	<u>AVERAGE</u>
Fabric 1	273 - 277	275
Fabric 2	280 - 287	285
Fabric 3	370 - 385	377

Weight:(oz/sq.ft.)

Fabric 1	5.73 - 5.74	5.74
Fabric 2	5.08 - 5.17	5.13
Fabric 3	6.15 - 6.32	6.24

PLAINTIFFS'
EXHIBIT ALB-17

Vallace and Graham, P.A.

ALB00204

TEST RESULTS: (continued)

Diagonal Stress/strain(% Elongation)

<u>Fabric 1 - Pounds of Load</u>	<u>Left</u>	<u>Right</u>	<u>Average</u>
5	1.74	1.53	1.64
10	2.81	3.75	3.28
15	3.68	4.38	3.72
20	4.51	5.00	4.76
25	5.44	5.69	5.57
30	6.63	6.51	6.57
35	7.85	7.36	7.61
40	9.17	8.42	8.80
45	10.42	9.56	9.99
50	11.58	10.60	11.09

<u>Fabric 2</u>			
5	1.56	1.67	1.62
10	2.64	2.50	2.57
15	3.60	3.15	3.38
20	4.58	3.75	4.17
25	5.89	4.44	5.17
30	7.82	5.26	6.54
35	9.89	6.11	8.00
40	11.82	7.22	9.52
45	13.44	8.33	10.89
50	14.72	9.44	12.08

<u>Fabric 3</u>			
5	1.04	.91	1.02
10	1.76	1.69	1.73
15	2.26	2.29	2.28
20	2.79	2.78	2.79
25	3.33	3.32	3.33
30	3.89	3.86	3.88
35	4.49	4.42	4.46
40	5.25	5.03	5.14
45	5.97	5.72	5.85
50	6.94	6.60	6.77

November 19, 1975
Memo. #19-5804/819
PWO-9253
Folder 6D1

Page 3

TEST RESULTS (continued)

<u>End Count</u>	<u>Lengthwise</u>	<u>Widthwise</u>
Fabric 1	32	21
Fabric 2	32	21
Fabric 3	32	21

<u>Strength (lbs/in. - 1" Strips)</u>	<u>VARIATION</u>	<u>AVERAGE</u>
Fabric 1 - Lengthwise	492 - 504	499
Widthwise	690 - 748	716
Fabric 2 - Lengthwise	485 - 495	492
Widthwise	495 - 565	541
Fabric 3 - Lengthwise	470 - 473	472
Widthwise	315 - 362	346

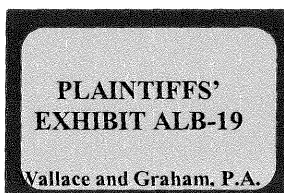
Elongation at Break

Fabric 1 - Lengthwise	31.8-32.2	31.9
Widthwise	32.5-36.7	34.2
Fabric 2 - Lengthwise	34.0-36.3	35.1
Widthwise	28.5-29.2	29.0
Fabric 3 - Lengthwise	35.2-37.0	35.9
Widthwise	8.2-8.3	8.2

Stiffness Test (Milligrams of Stiffness)

<u>Fabric No.</u>	<u>Left</u>		<u>Right</u>		<u>Average</u>
	<u>Variation</u>	<u>Average</u>	<u>Variation</u>	<u>Average</u>	<u>Left & Right</u>
1 - LW	15,600-20,800	17,934	4,000-6,800	5,167	11,551
2 - LW	17,200-18,400	17,867	4,400-6,800	6,233	12,050
3 - LW	39,200-40,000	39,733	20,000-21,600	20,800	30,267
1 - XW	118,400-150,400	133,920	108,800-128,000	117,334	125,627
2 - XW	115,200-137,600	122,667	92,800-124,800	108,800	115,734
3 - XW	92,800-128,000	109,067	38,400- 86,400	64,800	86,934

Quinto/gn



ALB00206

ALBANY FELT COMPANY

To: M. Josef

Copies To:

WHD
EFD
DRB
HRK
MJ
JB
FAC

TJ:HF

INTER-OFFICE MEMORANDUM

Date: December 9, 1975
Memo. #19-5864-552
Chg. C-218-2 1/2 hrs.
Folder 2C1 & EAI

From: A. Dix - AFC-Laboratory Services - Dept. #19

Subject: STANDARD YARN TEST L-72-1257-3 - FROM RAYBESTOS/MANHATTAN, INC.

BACKGROUND:

One sample of L-72-1257-3 brass polyester inserted yarn, treated from Raybestos/Manhattan, Inc. was submitted to the Laboratory Services Dept. by (M. Josef) for a standard yarn test.

This yarn was sent from J. Bliss to M. Josef.

TEST RESULTS:

L-72-1257-3 - Raybestos Manhattan, Inc.

Brass Polyester Inserted Yarn - Treated

Grains/100yds.	1644	1607
Denier		10,249
Lbs/end	12.5	16.5
GPD	0.5	0.7
% Elongation at 3 lbs.	1.4	1.1
% Elongation at break	8.0	15.9
T/72" Ply	732-L	492-L
S.Wire	612-R	0
S.Fil.	—	0
S.Asbestos	612-R	0

Harry Flint -
pls. compare to
normal asbestos/wr
& then let's discuss
M:

AEDix/gn

CHART ATTACHED.

PLAINTIFFS'
EXHIBIT ALB-20

Wallace and Graham, P.A.

ALB00242

REQUEST FOR MANUFACTURE OF NEW YARN

FEE 9 1976

10. H.F.

DATE

2/5/76

TO: YARN SCHEDULING - ALBANY - D. LARGE - C. BULLETT
ST. STEPHEN - R. HENDRICKS

QUALITY - D. BOYER, ALBANY • J. ELLIOT, ST. STEPHEN
RES. & SERVICES - ~~BOYER~~ F. COSTA
TECHNICAL DEPT. - ~~BOYER~~ Archie Pettes
YARN PREP. - ~~BOYER~~
YARN MAKING - ~~BOYER~~ H. RUBINO

FROM:

H.E. Flint / R.H. Root

☐ WET FELTS
☐ IND. FABRICS
☒ PAPER MACHINE SCREEN FABRICS

SUBJECT: NEW YARN REQUEST

PLEASE MAKE THE FOLLOWING YARN(S) FOR

☒ EXPERIMENTAL USE
☐ TO BE USED AS STANDARD YARN

TO BE MANUFACTURED IN ☐ ALBANY ☒ ST. STEPHEN

BLUE YARN NECESSARY ☐ YES ☒ NO

POUNDS NEEDED	WHEN NEEDED	DESCRIPTION
500/lbs	A.S.A.P.	X 139 C 223 Z AN F AS filling composed of { 3 ends 302A 41700M 1 end .008" phosphor bronze wire 352 turns / 72" Replacement for Asbestos yarns in 5878 style - to be used in AFC 1385-2

SPINNING

☒ SUBMIT SAMPLES TO LAB FOR ANALYSIS
☐ SUBMIT SAMPLES TO REQUESTOR FOR TRANSMITTAL TO LAB FOR ANALYSIS

LABORATORY

☐ MAKE STRESS - STRAIN, SIZE, TWIST ANALYSIS

PLAINTIFFS'
EXHIBIT ALB-21

Vallace and Graham, P.A.

ALB00217

Richard H. Root

AUTHORIZED SIGNATURE

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Harry Flint
Orrin Stevens

Copies To: WHDutt
JFLongo

Date: February 6, 1976

From: Mike Josef

Subject: Replacement for Asbestos/wire Dryer Felt Yarn - 165C154ZDFZM

At a meeting today, 2.6.76, attended by Messrs. J. E. Smith, F. J. Zanette, J. F. Longo, and M. Josef, it was decided to plan on eliminating asbestos from AFC dryer felts. We will proceed as follows:

1. H. Flint will be in charge of the acrylic/wire yarn trials going into the 2 felts for Corrugated Services.
2. As new orders for 5800 series felts come in, let's line up more substitutions - in each case we are to contact the respective salesman.
3. Tentatively there will be no price change.
4. Master cards should reflect the new % synthetic content.
5. Orrin - since most of the trials will be in your area I'd like you to maintain a page in the trial book for all trials.
6. Harry - as an alternative yarn, I'd like you to investigate a fiberglass crosswise yarn.
7. I don't see this change as a compromise with quality - please sell it to the salesman as necessary for safety/health reasons (asbestos).

2/27 - yarn being made in St. Stephen - w.v. in /wk.

MJJosef:elg

Mike

X139C 223 ZAVF

PLAINTIFFS'
EXHIBIT ALB-22

Wallace and Graham, P.A.

ALB00280

ALBANY FELT COMPANY

INTERNAL MEMORANDUM

To: Harry Flint
Orrin StevensCopies To: WHDutt
JFLongo

Date: February 6, 1976

From: Mike Josef

Subject: Replacement for Asbestos/wire Dryer Felt Yarn - 165G154ZDFZM

At a meeting today, 2.6.76, attended by Messrs. J. E. Smith, F. J. Zanette, J. F. Longo, and M. Josef, it was decided to plan on eliminating asbestos from AFC dryer felts. We will proceed as follows:

- X139C223Z4VF
1. H. Flint will be in charge of the acrylic/wire yarn trials going into the 2 felts for Corrugated Services, Forney, Tex.
 2. As new orders for 5800 series felts come in, let's line up more substitutions - in each case we are to contact the respective salesman.
 3. Tentatively there will be no price change.
 4. Master cards should reflect the new % synthetic content.
 5. Orrin - since most of the trials will be in your area I'd like you to maintain a page in the trial book for all trials.
 6. Harry - as an alternative yarn, I'd like you to investigate a fiberglass crosswise yarn.
 7. I don't see this change as a compromise with quality - please sell it to the salesmen as necessary for safety/health reasons (asbestos).

had Gpr }
utg, km }

MJJosef:elg

Mike

PLAINTIFFS'
EXHIBIT ALB-23

Wallace and Graham, P.A.

ALB00264

MEMORANDUM

~~115~~ 115
Ret. 115
Sample is on way up.

TO: Jack Elliott

February 26, 1976

FROM: J. Bliss

SUBJECT: Develop Replacement for Asbestos/Wire Yarn
Project 73-45. Yarn name X139C223ZAVF

COPIES: H. Flint, D. Boyer, M. Lape

We were asked to try making a yarn that could be used in place of our asbestos/wire yarn. Initial trials in Albany indicated that their Collins Twister could not be used as their creel does not allow for an over the side takeoff of a supply package. Wire must be taken off over the side in twisting instead of over the end or kinks will result from twist being put in the wire.

A small single spindle trial was made on one of our Leeson twisters which has an over the side takeoff. This trial indicated that it could be done. A request for manufacture of new yarn was received and the yarn made. No significant problems were incurred in making this yarn. A copy of our Lab test results is attached.

Jay
JBliss/vwm

Attachment

*Match
Stiles to
treatment to
him and before*

PLAINTIFFS'
EXHIBIT ALB-24

Wallace and Graham, P.A.

ALB00207

MAR 2 1976 *11: HF.*

MEMORANDUM

Copies: WHD
m3
HK
RHR

TO: Jack Elliott

February 26, 1976

FROM: J. Bliss

SUBJECT: Develop Replacement for Asbestos/Wire Yarn
Project 73-45. Yarn name X139C223ZAVF

COPIES: H. Flint, D. Boyer, M. Lape

*Harry - does
this yarn compare
favorably with what
we made in Albany?
Mice*

We were asked to try making a yarn that could be used in place of our asbestos/wire yarn. Initial trials in Albany indicated that their Collins Twister could not be used as their creel does not allow for an over the side takeoff of a supply package. Wire must be taken off over the side in twisting instead of over the end or kinks will result from twist being put in the wire.

A small single spindle trial was made on one of our Leeson twisters which has an over the side takeoff. This trial indicated that it could be done. A request for manufacture of new yarn was received and the yarn made. No significant problems were incurred in making this yarn. A copy of our Lab test results is attached.

Jay
JBliss/vwm

Attachment

PLAINTIFFS'
EXHIBIT ALB-25

Wallace and Graham, P.A.

ALB00290

INTER-OFFICE COMMUNICATION

TO: M. Josef

FROM: W. E. Duff

SUBJECT: 5800 SERIES INTER FILTS

DATE: March 15, 1976

It is my understanding that as soon as our asbestos wire yarn inventory is exhausted we will convert completely to the acrylic wire combination.

Sales has requested that we let each of the Salesmen know when we change from asbestos to acrylic for filts going into their customers.

Would you please set up the necessary mechanism to do this.

(NO)

B.H.

3/19

(1) I have not heard the
(2) I have not heard the
(3) I have not heard the

(4) I have not heard the
(5) I have not heard the

11/19

SIGNED

FORM 70-39 (12.689)

Original in Duff's Copy. Send Remaining Set, Carbon Intact, For Use Of Replier.

PLAINTIFFS'
EXHIBIT ALB-26

Wallace and Graham, P.A.

ALB00282

MAR 22 1976

MAR 22 1976

MEMORANDUM

TO: Don Boyer

FROM: Jack Elliott

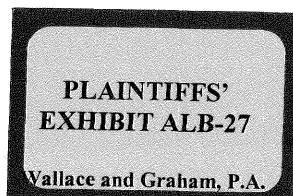
SUBJECT: Arylic/Wire Dryer Fabric Yarn

March 19, 1976

COPIES: Bill Dutt, Larry Paschall, Jay Bliss, Mike Josef,
Harry Flint

1. Production fabrics with this trial yarn finished. Factors normal.
2. CFM low - 125 for expected 200. This as expected. Yarn is loftier.
3. Yarn made on Leesona. Suspect some corkscrewing of wire. Appears more elastic.
4. Material ordered to produce more of this yarn. Were authorized to order enough for 10,000 pounds. (Note WHD - mistaken when told you 30,000 pounds). Due to inventory control have ordered 5,000 pound supply only.
5. Outstanding order for asbestos/wire yarn reduced. Estimate amount on hand and on order will hold us until mid/late April.
6. Sending sample of fabric made with acrylic wire to Albany via SCAT 3/22. Marked to attention of Bill Dutt. Lab tests to be made on sample.
7. Samples of NM yarn and specs to be obtained for comparative purposes. Our yarn made attempting to duplicate the asbestos yarn. Bill Dutt to arrange.
8. Harry Flint will contact Sales in an effort to have early field trial made on one of our production fabrics.

JWElliott:vwm



Jack

ALB00226

MAR 4 - 1976

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: H. Flint ✓

Copies To: M. Josef

Date: 3/22/76

From: W. H. Dutt

Subject: ACRYLIC WIRE ASBESTOS SUBSTITUTE

Since we have elected to make across-the-board change on the acrylic wire substitute for asbestos wire, it would be desirable to compare our yarn structure to that used by NF.

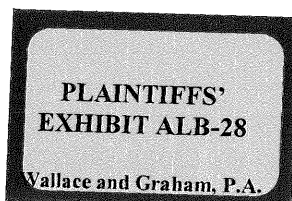
Would you please take the following action:

- 1) If you do not now already have samples of the Nordiska yarn please obtain them.
- 2) Compare the stress/strain and other physical characteristics of NF's yarn to the product being made by St. Stephen.
- 3) Review the results with MJ and me.

If you have to request sample from NF, do it via Telex to Wille Grondahl. *Done* *File*

WHDutt:ssb

B11
2



ALB00229

Bill Stott

JWE phoned 3/19 9AM

- ① He was wrong on 3,000 lbs order of Acryl: / w
- ② Order was for 10,000 lbs (\$30,000) actually order 5000 lbs Based on outstanding order for

Asbestos/wire & current usage

- ③ Will forward sample for Diagnos S/S & compare to our data on 5881/5880.

DRB
3/19

PLAINTIFFS'
EXHIBIT ALB-29

Wallace and Graham, P.A.

ALB00230

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: L. Paschall, S. S. Copies To: WAGoodwin
S. Thornley JWelliott
DRBoyer
WHDutt
HEflint
From: Mike Josef OStevens
JWeir
Subject: Replacement for Asbestos/wire Dryer Felt Yarn

Date: March 23, 1976

This memo is intended to update the Manufacturing Dept. on the status of replacing the asbestos/wire filling yarn with an acrylic/wire yarn made by AFC.

The change over will be made on a controlled basis over the next 6 month period. We have decided to assign approximately 50% of new orders which use a wire filling yarn, to be made with the X139C223ZAVF acrylic/wire yarn. The Designers will specify the trials with acrylic/wire yarn.

|| Since we have not fully evaluated a finished felt made with the acrylic/wir yarn, the above plans obviously are open to change.

Manufacturing should continue to order 165C154ZDFZM until Design issues instructions to eliminate this yarn. For the next 6 months you can plan on a usage rate 50% of what it is presently.

This memo should supersede any previous instructions.

MJJosef:elg

Mike

PLAINTIFFS'
EXHIBIT ALB-30

Wallace and Graham, P.A.

ALB00278

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: M. J. JosefCopies To: WHDutt
WAGoodwin
LPaschall - S. S.
APettesDate: April 13, 1976
dryer notes

From: H. E. Flint

Subject: Status acrylic/wire yarn

Following is the status of acrylic/wire substitution for asbestos/wire in 5800 series dryer felts.

St. Stephen

1. Two fabrics manufactured and shipped to Corrugated Services, Forney, Texas.
2. Wire is visible on surface of finished fabric, but surface is perfectly smooth - no kinks evident - quality good.
3. Wire is evident on filling yarn surface - St. Stephen to attempt to bury wire deeper into yarn surface.
4. Next 5800 series fabric assigned to St. Stephen will specify acrylic/wire yarn.

Albany

1. First attempt assigned to customer order produced excessive kinks of wire on surface of fabric in loom. Trial aborted and order processed with asbestos/wire.
2. Filling yarn good from twister, wire covered well, kinks appeared after winding.
3. Balance of yarn wound in reverse, small weaving trial much improved in grease, however few small kinks still evident.
4. Rest of filling will be reverse wound and used on next convenient customer order. Close inspection will be required.
5. In the meantime yarn making will make trial side-drawing wire during twisting to insure minimum of kinks.

HEFlint:elg

*4/22 - H.F. to ask Prod Control to order more wire from AW -
no more wire at AFC -
no spun yarn warps sched. in Alb. til mid May -*

PLAINTIFFS'
EXHIBIT ALB-31

Wallace and Graham, P.A.

ALB00283

ALBANY FELT COMPANY

WHD
DSN
MJ
FAC

MAY 25 1976

INTER-OFFICE MEMORANDUM

To: H. Flint

Copies To:

Date: May 24, 1976
Cont: #19-6317/763
PWO-9253-4 hrs.
Folder 2C1

From: AFC-Laboratory Services - Dept. #19 - EJQuinto

Subject: COMPARE PHYSICAL CHARACTERISTICS OF ACRYLIC/WIRE YARNS

BACKGROUND:

The Service Laboratory received four samples of acrylic/wire yarn from Dryer and Plastic Fabric Design(H.Flint).

The samples tested were as follows:

Acrylic/wire from:

1. Albany Plant(AFC)*
2. Canada Plant(AFC)*
3. Sweden Plant(AFC) (3 ends of Acrylin and 1 end of wire)
4. St.Stephen Plant(AFC)*

* 7 denier 100 mm staple 100% acrylic spun yarn. 3 ends 250 2/ply and 1 end of 8 mil. phosphor bronze wire.

OBJECTIVE:

To compare the yarns in regard to:

1. Strength
2. Weight
3. Denier
4. GPD
5. Elongation

TEST RESULTS:

ALB00284

<u>Strength(lbs/end)</u>	<u>Variation</u>	<u>Average</u>
Albany	23.7-26.5	24.8
Canada	29.5-34.8	31.9
Sweden	17.9-19.4	18.5
St.Stephen	23.3-26.3	24.6
<u>% Elongation at Break</u>		
Albany	29.5-33.6	31.8
Canada	29.0-31.3	29.9
Sweden	20.1-24.0	22.4

PLAINTIFFS'
EXHIBIT ALB-32

Vallace and Graham, P.A.

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: H. Flint

Copies To:

Date: May 24, 1976
Cont #19-6317/76
PWO-9253-4 hrs.
Folder 2C1

From: AFC-Laboratory Services - EJQ

Subject: COMPARE PHYSICAL CHARACTERISTICS OF ACRYLIC/WIRE YARNS

TEST RESULTS: (continued)

<u>Weight(grains/100yds.)</u>	<u>Average</u>
Albany	1357
Canada	1254
Sweden	1195
St. Stephen	1349

Denier

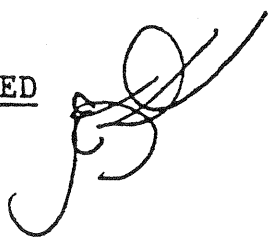
Albany	8655
Canada	7998
Sweden	7622
St. Stephen	8604

GPD

Albany	1.3
Canada	1.8
Sweden	1.1
St. Stephen	1.3

EJQuinto/gn

CHARTS ATTACHED



PLAINTIFFS'
EXHIBIT ALB-33

Wallace and Graham, P.A.

ALB00285.

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Mike Josef

Copies To: WHDutt
JFLongo
OCStevens

Date: May 27, 1976

From: Harry Flint

Subject: Asbestos/wire replacement yarns

Attached is a listing of the trials using acrylic/wire as a substitute for asbestos/wire and their status.

HEFlint:elg

6/25 ① remember, we could place spun acrylic alone on the face -
with no wire

PLAINTIFFS'
EXHIBIT ALB-34

Wallace and Graham, P.A.

ALB00274

ASBESTOS/WIRE R CEMENT YARNS

<u>Customer</u>	<u>Mch/Pos.</u>	<u>Felt #</u>	<u>AFC</u>	<u>Size</u>	<u>Style</u>	<u>Status</u>
Corrugated Services, Forney, Tex.	1-3T	90906	1385	114 x 86	5878CP-200	shipped
" "	1-3T	90907	1385	114 x 86	5878CP-200	shipped
Mosinee Paper	3-1T,2B	43952	2981	114 x 114	5881	woven, not finished
Gulf States, Tuscaloosa	A-2,3T,B	92464	1790	165 x 237	5878	to weave wk. of 6.7
Scott, Oconto Falls	2-Top	43638	2958	168 x 81	5881	to weave wk. of 6.7
Boise, DeRidder	1-3,5,6T	44416	1872	119 x 330	5881	to weave end of June

PLAINTIFFS'
EXHIBIT ALB-35

Wallace and Graham, P.A.

ALB00275

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: Harry Flint
Orrin Stevens

Copies To: JFLongo
WHDutt

Date: September 13, 1976

From: Mike Josef

Subject: Style EX832

Please try to get an order or two in 1976 for EX832 (our lowest cost dryer felt). This style has an acrylic/Nomex blend spun warp yarn and the acrylic wrapped wire filling.

MJJosef:elg

Mike

PLAINTIFFS'
EXHIBIT ALB-36

Wallace and Graham, P.A.

ALB00253

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: M. J. Josef

Copies To: WHDutt
JFLongo
OSTevens

Date: September 24, 1976

From: H. E. Flint

Subject: Low cost style EX832

Reference to your memo dated 9.13.76, I believe that we now realize that our current 5878 style utilizing the acrylic/wire filling is the identical EX832 layout on which the cost estimate was based. It has a warp yarn of 75% acrylic/25% HT green with the new acrylic/wire filling yarn.

The status of orders in this layout is as follows:

1.	Corrugated Services	90906	#1-3 Top	114 x 86	shpd. 3.19.76 not yet installed
2.	" "	90907	#1-3 Top	114 x 86	shpd. 3.19.76 not yet installed
3.	Weyerhaeuser, Plymouth	AFC 3206	#1, 3-1,2,3 Bot.	200 x 224	in process
4.	" "	AFC 3206	#1, 3-1,2,3 Bot.	200 x 224	in process

We also have two orders on the books for Arkansas Kraft #1-2T and #1-4T which are held before manufacturing due to high inventories. When released, they will be of the EX832 layout.

All future 5878 fabrics will also be of the EX832 layout.

HEFlint:elg

PLAINTIFFS'
EXHIBIT ALB-37

Wallace and Graham, P.A.

ALB00252

ALBANY FELT COMPANY

INTER-OFFICE MEMORANDUM

To: J. F. Longo

Copies To: Distribution

Date: October 20, 1976

From: M. J. JosefSubject: Elimination of Asbestos Yarn from Dryer Felts

As you know, almost all orders for dryer felts that used to require asbestos yarn have now been changed over to the acrylic/wire yarn. Each plant (Albany & St. Stephen) is now making this yarn. From a manufacturing/quality standpoint, Dryer Felt Design does not see a problem.

As far as I know, we have not yet installed a felt using the acrylic/wire yarn, but we don't foresee any problems.

I would like to eliminate the use of asbestos entirely by the end of 1976 - we're well on our way to elimination right now.

Please notify the salesmen that this across-the-board decision has been made.

Our reasons are:

1. cost - the asbestos/wire yarn now costs over ~~\$3.00~~ ^{4.00} per lb. compared to \$1.12/lb. for the acrylic/wire yarn. On a felt 150' x 150" it means a material cost saving of over \$1,000.00, ^{1/18/77}
2. need - the warp yarn is the key yarn in the success of a felt, not the filling. The wire will still be there for stability.
3. OSHA standards - Ralph Hendricks informed me that the new health standards call for sectioning off that part of the plant where asbestos is used; monitoring the level of asbestos in the air; sending employees for expensive physicals each year; and the plain fact that the asbestos must be dangerous. This may be why U. C., Franklin wants to know when the first non-asbestos content felts will be delivered to them.
4. the substitute yarn looks very good and will provide work for Albany employees.
5. Albany Felt will be able to reduce its inventory costs for this expensive yarn.

Important: If anyone disagrees with this decision, please let me know as soon as possible.

Mike

MJJosef:elg

Distribution: WHDutt, FJZanette, WAGoodwin, KEAnderson, LPaschall (S. S.) RHendricks (S. S.) DRBoyer, JWeir, HEflint, OStevens

PLAINTIFFS'
EXHIBIT ALB-38

Wallace and Graham, P.A.

ALB00272

ALBANY FELT COMPANY

Copy made
INTER-OFFICE MEMORANDUM

To: P. J. Fusco,
Globe Albany, Buffalo

Copies To: MJJosef
WHDutt

Date: November 4, 1976

From: C. J. Skubel

Subject: Asbestos Yarn Used in Oven Belts

As we discussed recently, the oven belts styles 5769, 5706, 5881 made using asbestos in the crosswise yarn will be made using acrylic yarn starting in Jan. '77.

Previously, I have sent you comparative samples of 5881 made with asbestos and acrylic yarns. We have every confidence in the proposed changeover and do not anticipate any difficulties.

As you know, the manufacture of asbestos yarns has become too regulated and restricted to continue with this fabric.

Should you require new sample and other information, please let me know.

CJSkubel:elg

PLAINTIFFS'
EXHIBIT ALB-39

Vallace and Graham, P.A.

ALB00273

ALBANY FELT COMPANY

ALBANY, N. Y. 12201

DATE 12/30/66 INVOICE NUMBER A2374W5481

SOLD TO

WEYERHAEUSER COMPANY NORTH CAROLINA PULP COMPANY SU
PLYMOUTH, N. C. 27962

SHIP TO (SAME AS SOLD TO UNLESS SHOWN)
PLYMOUTH, N. C.

UNIT CODE
POUNDS - 1
EACH - 2
YARDS - 3
SQ. FT. - 4
SQ. IN. - 5
LIN. FT. - 6
LIN. IN. - 7

SHIPPED VIA	DATE SHIPPED	A.F.C. NO.	CUSTOMER ORDER NO. AND REQ. NO.		TERMS	
PREPAID	12/27/66	9649	10359-66	9361	NET 30	
DESCRIPTION AND SIZE			U/C	UNITS	UNIT PRICE	TOTAL
DRI-SCREEN C/S 6TH TOP MCH. 1 119 X 220 ✓ FELT NO. 78237			4	2181.667	2.95	6,435.92 6,435.92

PROCESSED
FOR PAYMENT

PROCESSED
FOR PAYMENT

FELTS, JACKETS, AND OTHER MATERIALS ARE GUARANTEED ONLY AGAINST DEFECTS IN MANUFACTURE AND NO CLAIM OR ALLOWANCE WILL BE CONSIDERED UNLESS THEY ARE RETURNED IN THEIR ENTIRETY FOR OUR INSPECTION. WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

DATE	A.F.C. NO.	INVOICE NUMBER
123066	9649	W54812374A

TO INSURE PROPER CREDIT TO
YOUR ACCOUNT, PLEASE RE-
TURN THIS STUB WITH YOUR
REMITTANCE.

TERMS ARE FROM DATE OF INVOICE.

RETURN THIS STUB WITH YOUR REMITTANCE

PLAINTIFFS'
EXHIBIT ALB-40

Wallace and Graham, P.A.

ALBANY FELT COMPANY

ALBANY, N. Y. 12201

DATE 10/19/67 INVOICE NUMBER A2591W5481

SOLD TO

WEYERHAEUSER COMPANY NORTH CAROLINA PULP COMPANY SU-
PLYMOUTH, N. C. 27962

SHIP TO (SAME AS SOLD TO UNLESS SHOWN)

PLYMOUTH, N. C.

UNIT CODE
POUNDS . 1
EACH . 2
YARDS . 3
SQ. FT. . 4
SQ. IN. . 5
LIN. FT. . 6
LIN. IN. . 7

SHIPPED VIA	DATE SHIPPED	A.F.C. NO.	CUSTOMER ORDER NO. AND REQ. NO.		TERMS	
PREPAID	10/19/67	7486	11851		NET 30	
DESCRIPTION AND SIZE			U/C	UNITS	UNIT PRICE	TOTAL
DRI-SCREEN C/S 5TH TOP						
MCH. 3						
95 X 220						
✓ FELT NO. 18161			4	1741.667	3.10	5,399.17 ✓
						5,399.17
						TAXABLE 196

PROCESSED
FOR PAYMENT

FELTS, JACKETS, AND OTHER MATERIALS ARE GUARANTEED ONLY AGAINST DEFECTS IN MANUFACTURE AND NO CLAIM OR ALLOWANCE WILL BE CONSIDERED UNLESS THEY ARE RETURNED IN THEIR ENTIRETY FOR OUR INSPECTION. WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

DATE	INV. NO.	CUSTOMER NUMBER
101967	25A1	1W5481A

ALBANY FELT CO.

TO INSURE PROPER CREDIT TO
YOUR ACCOUNT, PLEASE RE-
TURN THIS STUB WITH YOUR
REMITTANCE.

TERMS ARE FROM DATE OF INVOICE.

RETURN THIS STUB WITH YOUR REMITTANCE

PLAINTIFFS'
EXHIBIT ALB-41

Vallace and Graham, P.A.

ALBANY FELT COMPANY

ALBANY, N. Y. 12201

DATE INVOICE NUMBER

08/06/69 A4513W5482

SOLD TO

WEYERHAEUSER CO. PULP AND PAPERBOARD OPERATIONS
PLYMOUTH, N. C. 27962

SHIP TO (SAME AS SOLD TO UNLESS SHOWN)

PAPERBOARD STOREROOM
PLYMOUTH, N. C.

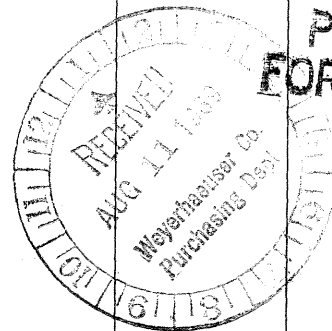
UNIT CODE
POUNDS - 1
EACH - 2
YARDS - 3
SQ. FT. - 4
SQ. IN. - 5
LIN. FT. - 6
LIN. IN. - 7

SHIPPED VIA	DATE SHIPPED	A.F.C. NO.	CUSTOMER ORDER NO. AND REQ. NO.		TERMS	
PREPAID	8/05/69	6488	7684		NET 30	
DESCRIPTION AND SIZE			U/C	UNITS	UNIT PRICE	TOTAL
DRI-SCREEN C/S 5TH TOP						
MCH. 3						
✓ 95 X 220						
FELT NO. 41816						
			4	1741.667	3.28	5,712.67
						5,712.67

72X14

PROCESS
FOR PAYMENT

RECEIVED
AUG 11 1969
Meyerhaeuser Co.
Purchasing Dept.



TAX 100
PROCESSED
FOR PAYMENT

FELTS, JACKETS, AND OTHER MATERIALS ARE GUARANTEED ONLY AGAINST DEFECTS IN MANUFACTURE AND NO CLAIM OR ALLOWANCE WILL BE CONSIDERED UNLESS THEY ARE RETURNED IN THEIR ENTIRETY FOR OUR INSPECTION. WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7, AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

PLAINTIFFS'
EXHIBIT ALB-42

Wallace and Graham, P.A.

ALBANY FELT COMPANY

ALBANY, N. Y. 12201

DATE 08/15/69 INVOICE NUMBER A4881W5482

SOLD TO

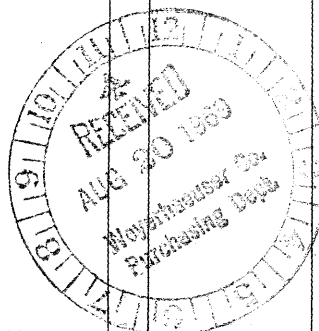
WEYERHAEUSER CO. PULP AND PAPERBOARD OPERATIONS
PLYMOUTH, N. C. 27962

SHIP TO (SAME AS SOLD TO UNLESS SHOWN)

PAPERBOARD STOREROOM
PLYMOUTH, N. C.

UNIT CODE
POUNDS - 1
EACH - 2
YARDS - 3
SQ. FT. - 4
SQ. IN. - 5
LIN. FT. - 6
LIN. IN. - 7

SHIPPED VIA	DATE SHIPPED	A.F.C. NO.	CUSTOMER ORDER NO. AND REQ. NO.		TERMS	
PREPAID	8/14/69	7008	8584		NET 30	
DESCRIPTION AND SIZE			U/C	UNITS	UNIT PRICE	TOTAL
DRI-SCREEN C/S 6TH TOP						
MCH. 2						
✓ 119 X 147						
FELT NO. 42572						
			4	1457.750	3.28	4,781.42
						4,781.42
						78176
						PROCESSED FOR PAYMENT



7/11/76
PROCESSED
FOR PAYMENT

FELTS, JACKETS, AND OTHER MATERIALS ARE GUARANTEED ONLY AGAINST DEFECTS IN MANUFACTURE AND NO CLAIM OR ALLOWANCE WILL BE CONSIDERED UNLESS THEY ARE RETURNED IN THEIR ENTIRETY FOR OUR INSPECTION. WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

PLAINTIFFS'
EXHIBIT ALB-43

Vallace and Graham, P.A.


Weyerhaeuser Company

PLYMOUTH, NORTH CAROLINA 27962

FIRST RECEIPT
**SHOW THIS
ORDER NUMBER
ON ALL INVOICES
PACKAGES AND
CORRESPONDENCE**

DATE 5/24/70	SHIP TO FINE PAPER STOCKROOM PLYMOUTH, N. C.	MARK FOR John T. Williams 5/25/70	TO ARRIVE OUR PLANT	P. O. NUMBER PP 1828
REQUISITION NO. 10819		ROUTING Pilot		
FOB our plant			TERMS 23	

Albany Felt Company

TO:

Albany, N. Y. 12201

INVOICE IN DUPLICATE AT TIME OF SHIPMENT

TO: WEYERHAEUSER COMPANY
 PURCHASING DEPARTMENT
 PLYMOUTH, NORTH CAROLINA 27962

 INVOICES NOT IN OUR POSSESSION BY THE 25th OF THE
 MONTH, WILL BE HANDLED AS OF THE SUCCEEDING MONTH.

IF MARKED		THIS IS A CONFIRMING ORDER-DO NOT DUPLICATE		
ITEM NO.	QUANTITY	DESCRIPTION	PRICE	ACCOUNT NUMBER
1	1	First Top Needled Dryer Felt Style 5912/062 @ \$1.32 sq. ft. approx size 243" x 120' Butt Seam per Frank McGee. CONFIRMED BY - John T. Williams DO NOT DUPLICATE. COMPLETE PURCHASE ORDER	\$ 3,280.00	550-01-01
		7-1		

SHIPMENT	DATE REC'D	CARRIER	PRO NUMBER	WEIGHT	FREIGHT	PPD.	COL.	RECEIVED BY

DATE	INV. NO.	YOUR ACCOUNT NO.
070970	54856	1W5482A

ALBANY FELT CO.

 TURN THIS STUB WITH YOUR
 REMITTANCE JUL 13 1970 A.M.

TERMS ARE FROM DATE OF INVOICE.

RETURN THIS STUB WITH YOUR REMITTANCE

**PLAINTIFFS'
EXHIBIT ALB-44**

Wallace and Graham, P.A.

№ 10818

QUANTITY	WORK ORDER NO.	ACCT. NO.	DESCRIPTION	PRICE
1			1- top needed day is full style 5912/002 4.32 sq. ft Approx \$3282.00 Size 248" X 120' Butt beam per Frank McJr	

DATE _____

ORDERED BY

MANAGER

PURCHASING AGENT

[illegible]

7-16-70

FELTS, JACKETS, AND OTHER MATERIALS ARE GUARANTEED ONLY AGAINST DEFECTS IN MANUFACTURE AND NO CLAIM OR ALLOWANCE WILL BE CONSIDERED UNLESS THEY ARE RETURNED IN THEIR ENTIRETY FOR OUR INSPECTION. WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

GUARANTEED ONLY AGAINST DEFECTS IN MATERIALS
UNLESS THEY ARE RETURNED WITHIN 90 DAYS
GOODS WERE PRODUCED IN COMPLIANCE
OF THE FAIR LABOR STANDARDS ACT, AS AMENDED
BY THE DEPARTMENT OF LABOR ISSUED UNDER
WETTERHEIM'S
ACCOUNTING DEPT.

DATE	INV. NO.	CUSTOMER NUMBER
070970	S4856	1W5482A0

ALBANY FELT CO.

TERMS ARE FROM DATE OF INVOICE.

RETURN THIS STUB WITH YOUR REMITTANCE

**PLAINTIFFS'
EXHIBIT ALB-45**

Wallace and Graham, P.A.