

INDUSTRIAL PRODUCTS DIVISION
Quality Control Department
March 14, 1973

Librarian

CANCELLED FINISHED PRODUCT SPECIFICATIONS
OUT-OF-THE-LINE PRODUCTS

Attached are the book files on the following cancelled Finished
Product Specifications:

<u>FPS Number</u>	<u>Title</u>
✓ II-4365-8	Insulated Perforated Rigid-Flex Aluminum Air Duct
✓ II-4365-9	Insulated Rigid-Flex Aluminum Air Duct
✓ II-4365-10	Rigid-Flex Aluminum Air Duct (Plain)
✓ II-4312-103	Insulated Products Adhesive
✓ II-4312-104	No. 319 Semi-Refractory Cement
✓ II-4312-105	No. 678 Semi-Refractory Cement

These products are no longer produced by the Industrial Products
Division. Any pages not needed for Library files may be discarded.

R. J. Rushforth

/rm

Quality Control Department
Industrial Insulations
Division Headquarters
Nashville Plant - 222
July 9, 1969

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File	
C	

CANCELLATION

FINISHED PRODUCT SPECIFICATION

No. 319 SEMI-REFRACTORY CEMENT

II-4312-104

Page 1 of 1, Issued 8/10/67

All fileholders are requested to cancel and remove the page of the subject Finished Product Specification. The pages are to be destroyed except at Local and Division Headquarters Quality Control Centers and Research Library.

DBW/R.J. Ruckfolt
D.E. WINCENTER

Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: NO. 319 SEMI-REFRACTORY CEMENT	DIVISION	II
		SPEC. NO.	4312-104
		PAGE NO.	1 of 1

I. MANUFACTURING POINT: Waukegan IID

II. DESCRIPTION:

No. 319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES:

A. Coverage (dry) (JM Test Method II-431-9)

Approximately 15 sq. ft. 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F

X 500 lbs/sq in. minimum (J-M Test Method II-433-21)

C. Linear Shrinkage - dried at 212°F

4.5% maximum

X D. Volume Shrinkage - dried at 212°F (JM Test Method II-433-19)

30% maximum

IV. PACKAGING AND LABELLING:

X 1. Packaged 50 lbs. per bag in 3 ply valve type printed waterproof paper bag (PS II-9028) and labelled as No. 319 Refractory Cement.

X 2. Each bag shall be marked with date of cement manufacture in code:

Example: 4188

4 - Year 1964
188 - 188th day of year
Decoded - 7/6/64

CANCELLED BY

DBW/RJR Letter

dated 7/9/69

FORM 305 PTD. IN U.S.A.
BJR

X — INDICATES CHANGE — REASON: To show revised TM Numbers and to show date code

AUTHORITY FOR CHANGE D.B. Wingerter per spec audit dated 5/2/67

SUPERSEDED Page 1 of same spec dated 1/27/66

BOOK FILE

QUALITY CONTROL DHO

DIR. G.C.	MGR. G.C.	SUPR. G.C.	PROD. SUPT.	PLNT. PN.	RES. LAB.	A. C. Pocius Wright	DATE ISSUED 8/10/67
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Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT:	DIVISION	II
	NO. 319 SEMI-REFRACTORY CEMENT	SPEC. NO.	4312-104
		PAGE NO.	1.

I. MANUFACTURING POINT: Waukegan

II. DESCRIPTION:

No. 319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES:

A. Coverage (dry) (JM Test Method II-431-9)
 approximately 15 sq. ft. 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F
 500 lbs/sq. in. minimum (JM Test Method II-50.8)

C. Linear Shrinkage - dried at 212°F
 4.5% maximum

D. Volume Shrinkage - dried at 212°F (JM Test Method IN-50.7)
 30% maximum

IV. PACKAGING AND LABELLING:

Packaged 50 lbs. per bag in 3 ply valve type printed waterproof paper bag (PS # IL-9025)

Code Date

Same as shown in FFS II-4336-3

CANCELLED
see ltr attached
3/14/73

BOOK FILE
QUALITY CONTROL DHO

CANCELLED BY
8/19/67

X — INDICATES CHANGE	REASON: To delete Pittsburgh and incorporate minor revisions	
AUTHORITY FOR CHANGE	E.C. Lindstrom per C.H. Jensen's letter 1/17/66, BP "Product Line Change" No. 048-21-65, and A. Pocius's letter 12/28/65.	
SUPERSEDES:	Page 1 and 2 same spec (old spec 431-21) issued 2/27/59	
DIR. Q.C.	MGR. Q.C.	SUPR. Q.C.
PROD. SUPT.	PLNT. PN.	RES. LAB.
A. Pocius		C.E. Ernst
		DATE ISSUED 1/27/66

Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT:	DIVISION	II
	NO. 319 SEMI-REFRACTORY CEMENT	SPEC NO.	1
		PAGE NO.	1.

I. MANUFACTURING POINTS:

Pittsburg
Waukegan

CANCELLED
on 3/14/73

BOOK FILE
QUALITY CONTROL DHO

II. DESCRIPTION:

No. 319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES:

A. Coverage (dry) (J-M Test Method IN-50.6) ← 3 - 3

Approximately 15 sq ft 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F

500 lbs/sq in minimum (J-M Test Method IN-50.8)

C. Linear Shrinkage - dried at 212°F

4.5% maximum

D. Volume Shrinkage* - dried at 212°F (J-M Test Method IN-50.7)

30% approximately

IV. PACKAGING AND LABELLING:

A. Packaged 50 lbs per bag as follows:

Pittsburg

Waukegan

5 ply Kraft
P.S. 6855 D-9019

3 ply valve type
waterproof paper bag
0.3 D-9028

B. Bag closure is by tying.

*Note: This value is tentative and will be verified on a permanent basis in the future.

1/27/66

Form 333-5 Pld. in U.S.A.

X- INDICATES CHANGE —REASON: To show correct packaging information

AUTHORITY FOR CHANGE E.C. Lindstrom per C.H. Jensen's letter of 12/26/58

SUPERSEDES: Page 1 same specification issued 4/8/53

DIR. Q.C.	MGR. Q.C.	SUPR. Q.C.	PROD. SUPT.	PLNT. FN.	RES. LAB.	COM. MGR.	R.C. Parlett	W.D. Caches	DATE ISSUED	2/27/59
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FINISHED PRODUCT ⁷⁶ SPECIFICATION

PRODUCT:

#319 SEMI-REFRACTORY CEMENT

DIVISION: I.D.

SPEC. NO.

431-21

PAGE NO.

1.

I. MANUFACTURING POINTS:

Manville
Pittsburg
Waukegan

II. DESCRIPTION

#319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES

A. Coverage (dry) (J-M Test Method IN-50.6)

Approx. 15 sq. ft. 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F

500 lbs/sq. in. minimum (J-M Test Method IN-50.8)

C. Linear Shrinkage - dried at 212°F

4.5% maximum.

D. Volume Shrinkage* - dried at 212°F (J-M Test Method IN-50.7)

30% Approx.

IV. PACKAGING AND LABELLING

A. Packaged 50 lbs. per bag as follows:

Manville

Pittsburg

Waukegan

waterproof bag
19" x 32"
1968/10/9

5 Ply Kraft
P.S. 68055

waterproof bag
P.S. 68148

B. Bag closure is by tying.

* NOTE: This value is tentative and will be verified on a permanent basis in the future.

X - INDICATES CHANGE - REASON: Correction in Waukegan packaging and to include Pittsburg.

AUTHORITY FOR CHANGE - O. H. Schlemmer's letter of 3-24-53.

FILE-HOLDERS	C.A. deVyver	L.L. Liggett	REL. ENCL.	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	INS. QUAL. CONTROL	RES. QUAL. CONTROL	SA.
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SUPERSEDES: Same spec. , issued 5-9-52.

DATE IS
4-8-5

FINISHED PRODUCT SPECIFICATION

PRODUCT:

#319 SEMI-REFRACTORY CEMENT

DIVISION IND

SPEC. NO.

PAGE NO.

1.

I. MANUFACTURING POINTS:

Marville and Waukegan

II. DESCRIPTION:

#319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES:

A. Coverage (dry) (J-M Test Method IN-50.6)

Approx. 15 sq. ft. 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F

500 lbs/sq. in. minimum (J-M Test Method IN-50.8)

C. Linear Shrinkage - dried at 212°F

4.5% maximum

D. Volume Shrinkage* - dried at 212°F (J-M Test Method IN-50.7)

30% Approx.

IV. PACKAGING AND LABELLING:

a. Packaged 50 lbs. per waterproof Refractory bag. (19" x 32").

b. Bag closure is by tying.

c. Bag is stencilled:

"319 Cement"

"Lot No. --"

* Note : This value is tentative and will be verified on a permanent basis in the future.

MAY 14 1952

X - INDICATES CHANGE - REASON: To add note.

E. P. WILLIAMS

AUTHORITY FOR CHANGE

pkg. Plant Request - O.H.Schaeffer Letter 4-29-52

FILE-HOLDERS	C. A. deVyver	ASST. MGR.	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	QTY. QUAL. CONTROL	INSPECTION QUAL. CONTROL	SUPPL. CONT.

SUPERSEDED:

Page 1 same spec. issued 3-18-52

FORM 5015-7
PRINTED IN U.S.A.

DATE ISSUED

5-9-52

**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

#319 SEMI-REFRACTORY CEMENT

DIVISION IND

SPEC. NO.

PAGE NO.

1.

I. MANUFACTURING POINTS:

Marville and Waukegan

II. DESCRIPTION:

#319 Cement is a mixture of asbestos fibre and binding materials which is used as a Semi-Refractory Cement for temperatures up to 1600°F.

III. PHYSICAL PROPERTIES:

A. Coverage (dry) (J-M Test Method IN-50.6)

Approx. 15 sq. ft. 1 inch thick per 100 lbs.

B. Modulus of Rupture - dried at 212°F

500 lbs/sq. in. minimum (J-M Test Method IN-50.8)

C. Linear Shrinkage - dried at 212°F

4.5% maximum

D. Volume Shrinkage - dried at 212°F (J-M Test Method IN-50.7)

30% Approx.

IV. PACKAGING AND LABELLING:

a. Packaged 50 lbs. per waterproof Refractory bag. (19" x 32").

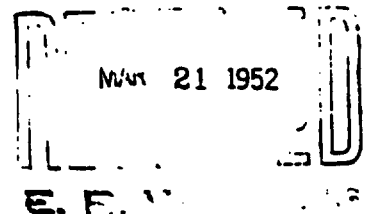
b. Bag closure is by tying.

c. Bag is stencilled:

"319 Cement"

"Lot No. ---"

CANCELLED



X - INDICATES
CHANGE - REASON:

New Specification

AUTHORITY
FOR CHANGE

Regular Approvals

FILE HOLDERS	C. A. deVyver			AD. ENG.	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	QTY. CTRL. CONTROL	INSPECTION CONTROL	SUPPLY CONT.
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SUPERSEDES:

FORM 802-7
PRINTED IN U.S.A.

Proposed Spec. Issued 1-16-52

DATE ISSUE

3-18-52

Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT:	DIVISION	II
	NO. 319 SEMI-REFRACTORY CEMENT	SPEC NO.	319
		PAGE NO.	2.

IV. PACKAGING AND LABELLING: (Cont'd)

C. Bag markings are as follows:

Pittsburg

Stencil
"319 Cement"
Date in code

Waukegan

Stencil

"Lot No. ---"

CANCELLED

*see the attached
3/14/73*

BOOK FILE
QUALITY CONTROL DHO

CANCELLED BY
1/27/66

Form 333-5 Pld. in U.S.A.

X- INDICATES CHANGE —REASON: Deletion of reference to Manville

AUTHORITY FOR CHANGE E.C. Lindstrom

SUPERSEDES: Page 2 same specification issued 4/8/53

DIR. Q.C.	MGR. Q.C.	SUPR. Q.C.	PROD. SUPT.	PLNT. FN.	RES. LAB.	COM. MGR.	R.C. Parlett	W.D. Gaches	DATE ISSUED	2/27/59
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**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

DIVISION IND

SPEC. N

431-21

PAGE N

2.

#319 SEMI-REFRACTORY CEMENT

IV. PACKAGING AND LABELLING (Cont'd.)

C. Bag markings are as follows:

Manville

Pittsburg

Waukegan

Stencil
"319 Cement"
"Lot No.----"

Stencil
"319 Cement"
Date in code

Stencil
"Lot No.----"

2/27/59

RETURN TO
J-M RESEARCH
FILE ROOM

X - INDICATES CHANGE - REASON: Correction in Waukegan Packaging and to include Pittsburg.

AUTHORITY FOR CHANGE - O. H. Schlemmer's letter of 3-24-53.

FILE-HOLDERS	C.A. deVyver	L.L. Liggett	DES. ENG.	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	DES. QUAL. CONTROL	MR. QUAL. CONTROL
						<i>AW</i>		

SUPERSEDES: Same spec., issued 5-9-52.

DATE

4-5

RECEIVED
A. C. SMITH
FEB 21 1966

PITTSBURGH PLANT
February 18, 1966

W. H. Rogers - DHQ
E. C. Lindstrom - DHQ
Research Division

**DRY CEMENTS
PITTSBURGH MANUFACTURING SPECIFICATIONS**

The production of Dry Cements ceased at this location January 1, 1966. Please remove the following Manufacturing Specifications from your active specification file:

Spec. No.

431-2 ✓
431-16 ✓
→ 431-21 ✓
431-29 ✓
431-33 ✓
C-1-1 ✓
C-1-2 ✓
C-1-3 ✓

Product

Type S Asbestocement
#301 Cement
#319 Semi-Refractory Cement
#450 Insulating Cement
#678 Semi-Refractory Cement
Bulk Expanded Vermiculite
Asbestos Base Insulating Cements
#500 Insulating Cement

W. H. THRESE

lm

cc: W. L. Ruff

JOHNS-MANVILLE
MANUFACTURING
SPECIFICATION

7319 SEMI-PORTLAND CEMENT

PL. NO.	MANUFACTURING
SPE. NO.	431-21
PAGE NO.	1

FORMULA:

Purchase Spec. No.	Material	Batch Weight	\$
-	Danville 6020 Fibre	50 $\frac{1}{2}$	5.0
-	Danville 4220 Fibre	160 $\frac{1}{2}$	16.0
63333	C Dry Silicate of Soda- 65 mesh	60 $\frac{1}{2}$	6.0
M.S. RS-X-9	Silica Flour	540 $\frac{1}{2}$	54.0
61158	Lincoln Clay - Ground	190 $\frac{1}{2}$	19.0
		1000 $\frac{1}{2}$	100.0

MANUFACTURING INSTRUCTIONS:

1. Screen dry silicate of soda to break up lumps if lumpy.
2. Mix batch until uniformly and thoroughly mixed.
3. Package material 50 $\frac{1}{2}$ bag (net) as follows:

Purchase Spec. No.	Material
68055	Paper Bag for Refractory Cements
-	Bag Ties

4. Stencil "319 Cement" and manufacturing date code on each bag.

RETURN TO
J-M RESEARCH
FILE ROOM

Form 333-2 Ptd. In U.S.A.

X- INDICATES CHANGE —REASON: Show use of own make silica flour and new number.

AUTHORITY FOR CHANGE Quality Control Dept.

SUPERSEDES: Page 1 specification C-I-5 issued 6/26/53

DIR. Q.C.	MGR. Q.C.	SUPR. Q.C.	PROD. SUPT.	PLANT MGR.	RES. LAB.	DATE ISSUED	6/5/58
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5-11-58
7-1-58

54X

DEPT. _____
PLANT _____

319 STI-REFRACTORY CEMENT

PAGE N

1

FORMULA:

<u>Purchase Spec. No.</u>	<u>Material</u>	<u>Batch Weight</u>	<u>\$</u>
-	Danville 6D20 Fibre	50#	5.0
-	Danville 4220 Fibre	160#	16.0
63333	C Dry Silicate of Soda-65 mesh	60#	6.7
61279	HM & AD Silica Flour	54.0#	54.0
61158	Lincoln Clay - Ground	190#	19.0
		1000#	100.0

MANUFACTURING INSTRUCTIONS:

1. Screen dry silicate of soda to break up lumps if lumpy.
2. Mix batch until uniformly and thoroughly mixed.
3. Package material 50# per bag (net) as follows:

<u>Purchase Spec. No.</u>	<u>Material</u>
68055	Paper Bag for Refractory Cements
-	Bag Ties

4. Stencil "319 Cement" and manufacturing date code on each bag.

RETURN TO
J-M RESEARCH
FILE ROOM

X- INDICATES - REASON: Correct product name.

AUTHORITY - FOR CHANGE Finished Product Specifications.

FILE-HOLDERS	SUPR. QUAL. CONTROL	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB	ENG. QUAL. CONTROL

SUPERSEDES: Page 1 of same specification issued 3/4/53

DATE ISS

6/26/53

X-1

Johns-Manville MANUFACTURING SPECIFICATION	PRODUCT	PLANT
	#678 Semi-Refractory Cement	DATE
	PAGE NO.	1

I. FORMULA

Pur. Spec. No.	Ingredients	#111 Mixer	#109 Mixer	Percent
		Weight	Weight	
-	6D 20 Fibre	200#	600#	34.4
II-1000	Lumnite Cement	282	246	30.5
II-1288	Type "C" Silica Sand	100	300	17.1
	Total	582#	1746#	100.0%

II. MANUFACTURING PROCEDURE

1. Order of Mixing

	#111 Mixer	#109 Mixer
a. Add Lumnite Cement, 94#/bag	94#	282#
b. Add 6D 20 Fibre, 100#/bag	100	300
c. Add Silica Sand, 100#/bag	100	300
d. Add Lumnite Cement,	94	282
e. Add 6D 20 Fibre	100	300
f. Add Lumnite Cement	94	282
Total	582#	1746#

- Reverse mixer and thoroughly mix batch for at least 3 minutes.
- Reverse mixer again and keep mixture rotating continuously during the drawing operation.
- Draw mixture into valve-type paper bag until 50 lbs. is obtained.
- Weigh at least one bag per mix and adjust weight setting if required.
- Package and code date in accordance with the latest Finished Product Specification (II-4312-105).
- Submit composite sample to Laboratory for testing.

X-2

Form 333-2-A Pld. In U.S.A.

X- INDICATES CHANGE	REASON:	X-1 Show new spec. number X-2 Update and show coding requirements.	DATE	DESIGN TO
AUTHORITY FOR CHANGE	D. B. Wingerter - Quality Audit			
SUPERSEDES:		Page 1, same spec. issued 8-16-61		
MGR. G.Q.C.	MGR. Q.C.	SUPR. Q.C.	PROD. SUPT.	PLNT. FIN.
RES. LAB.		DATE ISSUED		9-12-67

7/3/2 - 105

I. FORMULA

Per Spec.

No.

Ingredients

60 20 Fibre
 10000
 11-1288
 10000
 11-1288
 Type "C" Silica Sand

TOTAL

II. MANUFACTURING PROCEDURE

1. Order of Mixing

- Add Inmate Cement, 5000/bag
- Add 60 20 Fibre, 10000/bag
- Add Silica Sand, 10000/bag
- Add Inmate Cement, 5000/bag
- Add 60 20 Fibre, 10000/bag
- Add Inmate Cement, 5000/bag

Total

5000

- Reverse mixer and thoroughly mix batch for at least 10 minutes.
- Reverse mixer again and keep mixture rotating continuously during the drawing operation.
- Draw mixture into valve-type paper bag until the required amount is obtained.
- Weigh at least one bag per mix and adjust weight to 10.00 lb. per bag.
- Package in accordance with the latest finished product Specification.
- Submit composite sample to laboratory for testing.

RETURN TO
 J-M RESEARCH
 FILE ROOM

X-1 Show batch weight for #100 mixture.

X-2 Show use of Valve-type paper bag for packaging.

X-3 Formulator and reviewer

APPROVED
 FOR RELEASE

Conform to current practices.

COMMENTS:

Page 1, same spec. issued 4-18-55

REV.	DATE	BY	CHKD.	DATE	BY
1	10-1-55	J.M.	J.M.	10-1-55	J.M.

1-b.

MANUFACTURING SPECIFICATIONS

PRODU

DIVISION

SPEC NO.

PLANT

PAGE NO.

DEPT.

I. FORMULA

6DAX Fibre

or 6DAX Fibre

Type "C" Silica Sand

II. MANUFACTURING PROCEDURE

A. Order of Mixing

- a. 100 lb. Bag of 6DAX Fibre, 100% / bag
- b. 100 lb. Bag of 6DAX Fibre, 100% / bag
- c. 100 lb. Bag of 6DAX Fibre, 100% / bag
- d. 100 lb. Bag of 6DAX Fibre, 100% / bag
- e. 100 lb. Bag of 6DAX Fibre, 100% / bag
- f. 100 lb. Bag of 6DAX Fibre, 100% / bag

3. Thoroughly mix material for at least 5 minutes.

4. Keep mixture rotating continuously until material is thoroughly mixed.

5. Draw mixture into bag (ES 60340) until bag is full.

6. Package and label in accordance with the "Product Identification" section.

7. Submit sample to laboratory.

RETURN TO
J-M RESEARCH
FILE ROOM

X—INDICATES CHANGE — REASON:

To show use of 6DAX-2474-N Fibre as an alternate

AUTHORITY —
FOR CHANGE

P. D. Cannon's ltr of 4/4/55

FILE-HOLDERS

MVI..

SUPR.
QUAL.
CONTROL

PROD.
SUPT.

PLANT
FINANCE
OFFICE

RESEARCH
(initials)

SGR
QUAL
CONTROL

BIR
QUAL
CONT

SUPERSEDES:

pg. 1 same :poc. issued 3-22-55

DATE ISSUE

MANUFACTURING SPECIFICATIONS

Hunkagon DEPT.
 Cement PLANT

DIVISION IP

IPCC. NO.

DGT-13

PAGE NO.

1

I

I. FORMULA

Spec. No.	Ingredients	Amount	Percent
-	6020 Fibre	200#	34.4
PS 61030	Lumnite Cement	262	48.5
PS 61288	#75 Silica Sand	100	17.1
	Totals	562#	100.0%

II. MANUFACTURING PROCEDURE

X

1. Order of Mixing

a. Add 1 bag of Lumnite, 94#/bag	94#
b. Add 1 bag 6020 Fibre, 100#/bag	100
c. Add 1 bag Silica Sand, 100#/bag	100
d. Add 1 bag Lumnite Cement	94
e. Add 1 bag 6020 Fibre	100
f. Add 1 bag Lumnite Cement	94
Total	582#

2. Thoroughly mix batch for at least 3 minutes

3. Keep mixture rotating continuously during the drawing operation.

4. Draw mixture into bag (PS. 63148) until the required amount is obtained.

XX

5. Package and label in accordance with the latest Finished Product Specification.

6. Submit sample to laboratory.

RETURN TO
 J-M RESEARCH
 FILE ROOM

X- INDICATES - REASON:
CHANGE

XX To show packaging and labeling covered in Fin. Prod. Spec.
 X To simplify formula.

AUTHORITY -
FOR CHANGE

XX Additional information

X LAGattuta's letter of 4-30-53 approves Prod. Prep. Wkg. 22-132

FILE-HOLDERS

Manville Lib.

SUPP.
QUAL.
CONTROL

PROD.
SUPT.

PLANT /
FINANCE
OFFICE

RESEARCH
LAB.

ENG.
QUAL.
CONTROL

DIS.
QUAL.
CONTROL

SUPERSEDES: Page 1 of same spec. issued 3-21-53.

DATE ISSUED

6-30-53

MANUFACTURING SPECIFICATION

SPEC. NO.

DIVISION 141

CSI-12

PAGE NO.

Waukegan DEPT.

Cement PLANT

Refractory Cement

I. FORMULA

Spec. No.	Ingredients	Amount	Percent
PS 61030	6D 20 Fibre	175#	35%
PS 61288	Lumnite Cement	250	50
	#75 Silica Sand	75	15
	Totals	500#	100%

CANCELED

II. MANUFACTURING PROCEDURE

1. Order of Mixing

(a) Add 1 bag of Lumnite, 94# per bag 94#

(b) Add buggy containing the following:

Weighed Amounts of #75 Silica Sand 75#
 Lumnite 62#
 6D 20 Fibre 75#

(c) Add 1 bag 6D 20 Fibre, 100# per bag 100#

(d) Add 1 bag Lumnite, 94# per bag 94#

2. Thoroughly mix batch for at least 1 minutes.

3. Keep mixture rotating continuously during the drawing operation.

4. Draw mixture into bag (PS. 69148) until the net weight of 50# is obtained.

5. Insert Direction Sheets and tie mouth of bag with a wire tie.

6. Stencil bag in accordance with the Finished Product Specification.

7. Submit sample to laboratory.

XX

XX

RETURN TO
 J-M RESEARCH
 FILE ROOM

X To show correct P. S. numbers and product names.
 X- INDICATES CHANGE — REASON: XX To show Direct Sheet and make reference to the P. S.

X Correction

AUTHORITY—
 FOR CHANGE XX Additional information

FILE-HOLDERS

Manville Lab

SUPT.
QUAL.
CONTROLPROD.
SUPR.PLANT
FINANCE
OFFICERESEARCH
LABMGR.
QUAL.
CONTROLDIR
QUAL
CONTR

SUPERSEDES: Page 1 of same spec. issued 12-27-49.

DATE ISSUED

3-31-49

MANUFACTURING SPECIFICATIONS

PRODUCT:

DIVISION 10

SPEC NO.

Waukegan PLANT

#67 Semi-Retortory Cement

DCI-13

Cement DEPT.

PAGE NO.

1

CANCELLED

I. FORMULA

P.S. no.	Ingredients	Batch Quantities	Amount	Percent
-	6D 20 Fibra	1 bag and weigh 75#	175#	35%
61030	Lumnite Cement	2 bags and weigh 62#	250	50
-	Wedron Sand	Weigh 75#	75	15
Totals			500#	100%

II. MANUFACTURING PROCEDURE

1. Order of Mixing

- Add 1 bag of Lumnite, 94# per bag 94#
- Add buggy containing the following:

Weighted Amounts of Wedron Sand	75#
Lumnite	62#
6D 20 Fibre	75#
- Add 1 bag 6D 20 Fibre, 100# per bag 100#
- Add 1 bag Lumnite, 94# per bag 94#

2. Thoroughly mix batch for at least 3 minutes.

3. Keep mixer rotating continuously during the drawing operation.

4. Draw off into bags - 50# per bag. (each bag is weighed) Tie with bag ties.

5. Stencil bag: "#678 Cement" and lot number.

6. Submit sample to laboratory.

P.S. no. Material
66166 Asphalt lined bags 19" x 30" (no printing)

Note: A printed bag may be used (PS 66147)

X- INDICATES CHANGE - REASON: To show order of mixing.

AUTHORITY FOR CHANGE - Additional information

FILE-HOLDERS	MANVILLE Foreman	Lab	SUPR. QUAL. CONTROL	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	MR. QUAL. CONTROL	SIR. QUAL. CONTROL
--------------	------------------	-----	---------------------	-------------	----------------------	---------------	-------------------	--------------------

SUPERSEDES: Page 1 of same spec. issued 6-15-49

DATE ISSUED

12-27-49

MANUFACTURING SPECIFICATIONS

PROB.

IP

SPEC. NO.

DCI-13

PAGE NO.

1

Waukegan

PLANT

NO.

Laboratory Cement

DIVISION

Cement

DEPT.

u;

I. FORMULA

P.S. no.	Ingredients	Batch Quantities	Amount	Percent
-	6D 20 Fibre	1 bag & weigh 75#	175#	35%
61030	Lumnite Cement	2 bags & weigh 62#	250#	50
-	Wedron Sand	Weigh 75#	75#	15
Totals			500#	100.0%

II. MANUFACTURING PROCEDURE

1. Charge alternate portions of the above materials into the skip hoist of the high temperature cement mixer.
2. Thoroughly mix batch for at least 3 minutes.
3. Keep mixer rotating continuously during the drawing operation.
4. Draw off into bags - 50# per bag. (each bag is weighed) Tie with bag ties.
5. Stencil bag: "#678 Cement" and lot number.
6. Submit sample to laboratory.

P.S. no.

Material

66166

Asphalt lined bags 19" x 30"
(no printing)

Note: A printed bag may be used (PS 66147)

See spec 17-1-49

X- INDICATES REASON: Retyping of page.

AUTHORITY FOR CHANGE

Correction

FILE-HOLDERS

Manville Foreman

Lab

SUPR. QUAL. CONTROL

PROD. SUPT.

PLANT FINANCE OFFICE

RESEARCH LAB.

MR. QUAL. CONTROL

MR. QUAL. CONTROL

SUPERSEDES:

Page 1 of same spec. issued 9-14-44.

DATE ISSUED

6-15-49

MANUFACTURING SPECIFICATIONS

Waukegan FACTORY

Dry Cement DEPT.

PRODUCT:

SECTION
NO. 3

SPEC. NO.
DCI-13

#678 Semi-Refractory Cement

PAGE NO.
1

I. FORMULA

P.S.No.	Ingredients	Batch Quantities	Amount	Percent
-	6220 Fibre	1 bag & weigh 75#	175#	35%
61030	Luanite Cement	2 bags & weigh 62#	250#	50
	Wedron Sand	weigh 75#	75#	15
		Totals	500#	100%

II. MANUFACTURING PROCEDURE

1. Charge alternate portions of the above materials into the skip hoist of the high temperature cement mixer.
2. Thoroughly mix batch for at least 3 minutes.
3. Keep mixer rotating continuously during the drawing operation.
4. Draw off into bags - 50# per bag. (Each bag is weighed). Tie with bag ties.
5. Stencil bag: "#678 Cement" and lot number.
6. Submit sample to laboratory.

P.S.No.	Material
66166	Asphalt lined bags 19" x 30" (no printing)

NOTE: A printed bag may be used - (P.S. #66147)

*new spec
6/15/49*

X- INDICATES CHANGE — REASON:

Correction.

AUTHORITY FOR CHANGE—

FILE-HOLDERS

Manville Ind.
Factory Eng.

BLDG.
SUPT.

LOCAL COST
DEPT.

RESEARCH
DEPT.

GEN. I. & C.
DEPT.

GEN. COST
DEPT.

LOCAL
I. & C.

SUPERSEDES:

Page 1 of same Spec. issued 1/2/42.

DATE ISSUE

SEP 14 1944

MANUFACTURING SPECIFICATIONS

MANVILLE

PLANT

PIPE COVERING

DEPT.

PRODUCT:

DIVISION IP

SPEC. NO.

CT-45

PAGE NO.

1

600 Sch.-Refractory Cement

431

FORMULA:Spec. No.Material

Batch

WeightPer cent

-

6D20 Danville Fiber*

180#

35.0%

P.S. 61030

Lumite Cement

258

50.0

P.S. 61288

Type C Silica Sand

78

15.0

516#

100.0%

*Note: 6DAX may be used as alternate for 6D20.MANUFACTURING INSTRUCTIONS:

1. Feed batch to Dry Cement Mixer in order listed. Mix for a minimum of 3 minutes.
2. Do not release for shipment until 4# sample, taken a handful from each batch and submitted to Control Laboratory, is approved.
3. See Finished Product Specification for Packaging and Labelling information (Product Instruction tag is attached to cyelet of bag tie by Shipping Department.)

CONTROL LIMITS:

Covering Capacity, Board Ft./100#
Transverse Str., Lb./Sq.In. 24 hrs. Air Set

MinimumMaximum

19

22

175

-

RETURN TO
J-M RESEARCH
FILE ROOM

X-INDICATES - REASON:
CHANGE

X - To show 6DAX as alternate for 6D20.

XX - To show attachment of tag by Shipping Department.

AUTHORITY -
FOR CHANGE

X - Letter of P.D. Cannon to H.J. O'Brien dated 4/4/55.

XX - Additional Information.

FILE-HOLDERS

IND. ENGR. WAUKESHA LAB.

CONTROL

SUPE.
QUAL.
CONTROLPROD.
SUPT.PLANT
FINANCE
OFFICERESEARCH
LAB.ENG.
QUAL.
CONTROLDIS.
QUAL.
CONTROL

SUPERSEDES:

Same specification issued 3/29/55.

DATE ISSUED

APR 22 1955

MANUFACTURING SPECIFICATIONS

MANVILLE

PLANT

PIPE COVERING

DEPT.

PRODUCT:

DIVISION IP

SPEC. NO.

CT-45

PAGE NO.

1

FORMULA:

CANCELLED

4/12/55

Spec. No.MaterialBatchWeightPer cent

P.S. 61030

6D20 Danville Fiber

180#

35.0%

P.S. 61288

Lumnite Cement

253

50.0

Type C Silica Sand

78

15.0

516#

100.0%

X

XX

MANUFACTURING INSTRUCTIONS:

1. Feed batch to Dry Cement Mixer in order listed. Mix for a minimum of 3 minutes.
2. Do not release for shipment until 4# sample, taken a handful from each batch and submitted to Control Laboratory, is approved.
3. See Finished Product Specification for Packaging and Stencilling information.

CONTROL LIMITS:

Covering Capacity, Board Ft./100#
Transverse Str., Lb./Sq. In. 24 hrs. Air Set

MinimumMaximum

19

22

175

-

RETURN TO
J-M RESEARCH
FILE ROOM

X - INDICATES
CHANGE - REASON:

X - To show change in nomenclature to Type C Silica Sand.

XX - Deletion of Finished Product Specification information.

X - Letter of E.S. Bogert to J.R. Robson dated 3/17/55.

XX - Covered in Finished Product Specification 431-33.

AUTHORITY -
FOR CHANGE

FILE-HOLDERS

IND. ENGR. WAUKOON

CONTROL

LAB.

SUPP.
QUAL.
CONTROLPROD.
SUPT.PLANT
FINANCE
OFFICERESEARCH
LAB.HQS.
QUAL.
CONTROLSIG.
QUAL.
CONTROL

SUPERSEDES:

Same specification issued 11/30/51 and formerly numbered FC-210. DATE ISSUED

MANUFACTURING SPECIFICATIONS

Manville DEPT.
Pipe Covering PLANT

PRODUCT:

DIVISION IP

#678 Semi-Refractory Cement.

SPEC. NO.

CT-45

PC-918

PAGE NO.

#1

CANCELLED

+ 5 \$

Formula:

Spec. No.	Material	Batch	
		Wt.	%
61030	6D20 Danville Fibre	180#	35%
61288	Lumnite Cement	258	50
	Silica Sand #75	78	15
		516#	100%

Manufacturing Instructions:

1. Feed batch to Dry Cement Mixer in order listed. Mix for a minimum of 3 minutes.

2. Control Limits:

	Minimum	Maximum
Covering Capacity, Board Ft./100#	19	22
Transverse Str., Lb./Sq.In. 24 hrs.		
Air Set	175	-

3. Do not release for shipment until 4# sample, taken a handful from each batch and submitted to Control Laboratory, is approved.

4. Package 50 lbs./Refractory Bag (19" x 32")/

5. Tie with bag ties and stencil one side as follows:

"678 Cement"

RECEIVED
DEC 3 1951
J.M. RESEARCH
F.I.F. ROOM

X- INDICATES - REASON: To include Packaging and Labelling information.
CHANGE

AUTHORITY - Letter of E.S. Bogart to J.R. Robson dated 11/19/51.
FOR CHANGE

FILE-HOLDERS	Ind. Engr.	Wkg.	SUPP. QUAL. CONTROL	PROD. SUPT.	PLANT FINANCE OFFICE	RESEARCH LAB.	ENG. QUAL. CONTROL	DIS. QUAL. CONTROL
--------------	------------	------	---------------------	-------------	----------------------	---------------	--------------------	--------------------

SUPERSEDES: Specification PC-157 issued 3/26/47.

DATE ISSUED
NOV 30 1951

X RETURN TO
J-M RESEARCH
F.I.F. ROOM

JEW
12-10-51

MANUFACTURING
SPECIFICATION

4678 SEMI-REFRACTORY CEMENT

PLANT & DIV.

PITTSBURGH B.P.

SPEC NO.

431-33

PAGE NO.

1

I. FORMULA:

<u>Spec. No.</u>	<u>Material</u>	<u>\$</u>	<u>Lbs. per Batch</u>
- - -	6020 Asbestos Fibre	35.0	395
P.S. 61030	Lumite Cement	50.0	564
M.S. PS-X-9	Silica Flour	15.0	169
		100.0%	1128

II. MANUFACTURING INSTRUCTIONS:

1. Charge ingredients to mixer in order shown above. Mix until ingredients are thoroughly dispersed.

III. PACKAGING:

1. Package cement 50 lbs. net per bag in Printed Refractory Cement Bag, P.S. 68055.
2. Close bag with wire tie and attach Product Instruction Tag No. D-90A.
3. Stencil "678 Cement", "50 lbs. net", and manufacturing date code on each bag.

TRADE SECRET
J-M 83

RETURN TO
J-M RESEARCH
FILE ROOM

X- INDICATES
CHANGE

—REASON:

Show use of own make silica flour and new number.

AUTHORITY
FOR CHANGE

Quality Control Dept.

SUPERSEDES:

Page 1 of specification, issued 7/23/53.

C-I-4

DIR.
Q.C.

MGR.
Q.C.

SUPR.
Q.C.

PROD.
SUPT.

PLNT.
FIN.

RES.
LAB.

DATE
ISSUED

6/5/58

MANUFACTURING SPECIFICATIONS

PRODUCT:

DIVISION: **B2**

SPEC. NO.

On File

PAGE NO.

1

DEPT.
PLANT

#675 Refractory Cement

I. FORMULA:

*Cancelled
431-33*

Spec. No.	Material	lb.	lbs. per Batch
P.S. 61030	6000 Asbestos Fibre	35.0	395
P.S. 61279	Lowite Cement	50.0	561
	Silica Flour (Del Monte #3)	15.0	169
		100.0	1125

II. MANUFACTURING INSTRUCTIONS:

1. Charge ingredients to mixer in order shown above. Mix until ingredients are thoroughly dispersed.

III. PACKAGING:

1. Package cement 50 lbs. net per bag in Printed Refractory Cement Bag, P.S. 60055.
2. Close bag with wire tie and attach Product Instruction Tag No. D-901.
3. Stencil "#675 Cement", "50 lbs. net", and manufacturing date code on each bag.

TRADE SECRET
J-M 83

X- INDICATES - REASON: **Correct packaging data.**

AUTHORITY -
FOR CHANGE

Finished Product Specification

FILE-HOLDERS:

SUPERSEDES: **Page 1 of same specification issued 7/2/52**

DATE ISSUED
7/23/53

RETURN TO
J-M RESEARCH
FILE ROOM

Porter

444 PLAZA
THANK YOU
◀◀◀◀◀◀◀◀◀◀

◀P010▶

24

01-6615 No.

98-08-▶107

003-14:38EX

98-08-▶107

003-12:02EN

B...19.208

...19.208

Canterbury Travels, Ltd.

ONE CIVIC CENTER PLAZA
1560 BROADWAY, SUITE 1195
DENVER, COLORADO 80202

(303) 832-2244
1-800-645-0347
Fax (303) 832-2183



HOLMES ROBERTS AND OWEN
1700 LINCOLN 41ST FLOOR
DENVER CO 80203

INVOICE: 28887 JUL 24 1998
PNR: MW7BZ4
PAGE NO.01
HRO ELAINE

LUND/KEN

A WED29JUL LV DENVER 710A UNITED 597H OK
AR LOS ANGELES 827A NONSTOP
EQUIP-AIRBUS A320 JET JOURNEY TIME- 2:17
BREAKFAST 7D
FREQ FLYER UA 00129680962

H 29 JUL 98 MARRIOTT 02 NT/S
1400 PARKVIEW AVE
MANHATTAN BEACH CA 90266
PHONE-310 546-7511 FAX-310 546-7520
RATE 150.00 RATE STATUS-GUARANTEED
CONF-82564939

A FRI31JUL LV LOS ANGELES 515P UNITED 1718Q OK
AR DENVER 823P NONSTOP
EQUIP-DC-10 JET JOURNEY TIME- 2:08
SNACK 15H
FREQ FLYER UA 00129680962

CLIENT ACCOUNT NUMBER 41567-00160
NON-REFUNDABLE SERVICE CHARGE IS \$10.00 PER PERSON
CANCELLATION PENALTY IS 100 PERCENT OF FARE PAID AND
CHANGES MAY RESULT IN A HIGHER FARE TO BE PAID
READ THE ITINERARY CAREFULLY
AIRLINES CHARGE BEEF CHICKEN AND PASTA
TICKET ARE NON-REFUNDABLE

TICKET NUMBER
LUND/KEN
PAYMENTS ON TICKET MADE

AIR TRANSPORTATION

ACCOUNTS ARE DUE IN 10 DAYS. THERE-
AFTER THE BALANCE IS SUBJECT TO AN
ANNUAL 18% FINANCE CHARGE.

CODE: A - AIR H - HOTEL C - CAR CLASS: F - FIRST
T - TOUR S - SERVICE Y - COACH
V - OTHER TRAVEL SERVICE H.K.Q.M.B.V. - ECONOMY FARE

STATUS: OK - CONFIRMED
WL - WAIT LIST
RO - REQUEST



Canterbury Travel, Ltd.

ONE CIVIC CENTER PLAZA
560 BROADWAY, SUITE 1195
DENVER, COLORADO 80202

(303) 832-2244
1-800-645-0347
Fax (303) 832-2183



HOLMES ROBERTS AND OWEN
1700 LINCOLN 41ST FLOOR
DENVER CO 80203

INVOICE: 28968 AUG 04, 1998
PNR: GH1280
PAGE NO. 01
HRO ELAINE

LUND/KEN

A MON17AUG LV DENVER 710A UNITED 597Q OK
AR LOS ANGELES 827A NONSTOP
EQUIP-AIRBUS A320 JET JOURNEY TIME- 2:17
BREAKFAST 13C
FREQ FLYER UA 00129680962

H 17 AUG 98 MARRIOTT 03 NT/S
1400 PARKVIEW AVE
MANHATTAN BEACH CA 90266
PHONE-310 546-7511 FAX-310 546-7520
RATE 150.00 RATE STATUS-GUARANTEED
CONF-80401150

A THU20AUG LV LOS ANGELES 515P UNITED 1718Q OK
AR DENVER 823P NONSTOP
EQUIP-DC-10 JET JOURNEY TIME- 2:08
SNACK 14H
FREQ FLYER UA 00129680962

NON-REFUNDABLE SERVICE CHARGE IS \$10.00 PER PERSON
CANCELLATION PENALTY IS 100 PERCENT OF FARE PAID AND
CHANGES MAY RESULT IN A HIGHER FARE TO BE PAID
READ THE ITINERARY FOR MORE DETAILS
AIRLINE'S CARRIER AND FLIGHT NUMBER
TICKET ARE NON-REFUNDABLE

TICKET NUMBER/S

LUND/KEN

PAYMENTS ON TICKET

AIR TRANSPORTATION

4.00
0.00
0.00
0.00

ACCOUNTS ARE DUE IN 10 DAYS. THERE-
AFTER THE BALANCE IS SUBJECT TO AN
ANNUAL 18% FINANCE CHARGE.

CODE: A - AIR H - HOTEL C - CAR CLASS: F - FIRST
T - TOUR S - SERVICE Y - COACH
V - OTHER TRAVEL SERVICE H.K.Q.M.S.V - ECONOMY FARE

STATUS: OK - CONFIRMED
WL - WAIT LIST
RQ - REQUEST



Canterbury Travels, Ltd.

ONE CIVIC CENTER PLAZA
1560 BROADWAY SUITE 1195
DENVER COLORADO 80202

(303) 832-2244
1-800-645-0347
Fax (303) 832-2183



Chase & Sons
International
Association



HOLMES ROBERTS AND OWEN
1700 LINCOLN 41ST FLOOR
DENVER CO 80203

INVOICE: 28887 JUL 24 1998
PNR: MW7BZ4
PAGE NO.01
HRO ELAINE

LUND/KEN

A WED29JUL LV DENVER 710A UNITED 597H OK
AR LOS ANGELES 827A NONSTOP
EQUIP-AIRBUS A320 JET JOURNEY TIME- 2:17
BREAKFAST 7D
FREQ FLYER UA 00129680962

H 29 JUL 98 MARRIOTT 02 NT/S
1400 PARKVIEW AVE
MANHATTAN BEACH CA 90266
PHONE-310 546-7511 FAX-310 546-7520
RATE 150.00 RATE STATUS-GUARANTEED
CONF0-82564939

A FRI31JUL LV LOS ANGELES 515P UNITED 1718Q OK
AR DENVER 823P NONSTOP
EQUIP-DC-10 JET JOURNEY TIME- 2:08
SNACK 15H
FREQ FLYER UA 00129680962

CLIENT ACCOUNT NUMBER 41567-00160
NON-REFUNDABLE SERVICE CHARGE IS \$107.00 PER PERSON
CANCELLATION PENALTY IS 100 PERCENT OF THE RATE AND
CHANGES MAY RESULT IN A HIGHER FARE OR PENALTY
READ THE ITINERARY CAREFULLY
AIRLINES CHARGE FEES FOR CHANGES OR CANCELLATIONS
TICKET ARE NON-REFUNDABLE

TICKET NUMBER/5

LUND/KEN

PAYMENTS ON TICKET MADE BY

AIR TRANSPORTATION

544.00

200.00

344.00

544.00

ACCOUNTS ARE DUE IN 10 DAYS. THERE-
AFTER THE BALANCE IS SUBJECT TO AN
ANNUAL 18% FINANCE CHARGE.

CODE: A - AIR H - HOTEL C - CAR CLASS: F - FIRST
T - TOUR S - SERVICE Y - COACH
V - OTHER TRAVEL SERVICE M.K.Q.M.B.V. - ECONOMY FARE

STATUS: OK - CONFIRMED
WL - WAIT LIST
RQ - REQUEST



Canterbury Trave' , Ltd.

ONE CIVIC CENTER PLAZA
1560 BROADWAY, SUITE 1195
DENVER COLORADO 80202

(303) 832-2244
1-800-645-0347
Fax (303) 832-2183



HOLMES ROBERTS AND OWEN
1700 LINCOLN 41ST FLOOR
DENVER CO 80203

INVOICE: 28988 AUG 04 1998
PNR: QH12B0
PAGE NO. 01
HRO ELAINE

LUND/KEN

A MON17AUG LV DENVER 710A UNITED 597Q OK
AR LOS ANGELES 827A NONSTOP
EQUIP-AIRBUS A320 JET JOURNEY TIME- 2:17
BREAKFAST 13C
FREQ FLYER UA 00129680962

H 17 AUG 98 MARRIOTT 03 NT/S
1400 PARKVIEW AVE
MANHATTAN BEACH CA 90266
PHONE-310 546-7511 FAX-310 546-7520
RATE 150.00 RATE STATUS-GUARANTEED
CONFO-80401150

A THU20AUG LV LOS ANGELES 515P UNITED 1718Q OK
AR DENVER 823P NONSTOP
EQUIP-DC-10 JET JOURNEY TIME- 2:08
SNACK 14H
FREQ FLYER UA 00129680962

NON-REFUNDABLE SERVICE CHARGE IS \$10.00 PER PERSON
CANCELLATION PENALTY IS 100 PERCENT OF FARE PAID AND
CHANGES MAY RESULT IN A HIGHER FARE OR PENALTY
READ THE ITINERARY CAREFULLY
AIRLINE TICKETS ARE NON-REFUNDABLE
TICKET ARE NON-REFUNDABLE

TICKET NUMBER/STATUS

LUND/KEN

PAYMENTS ON TICKET

AIR TRANSPORTATION

ACCOUNTS ARE DUE IN 10 DAYS. THERE-
AFTER THE BALANCE IS SUBJECT TO AN
ANNUAL 18% FINANCE CHARGE.

CODE: A - AIR H - HOTEL C - CAR CLASS: F - FIRST
T - TOUR S - SERVICE Y - COACH
V - OTHER TRAVEL SERVICE M.K.O.M.B.V - ECONOMY FARE

STATUS: OK - CONFIRMED
WL - WAIT LIST
RO - REQUEST



10-99

1. 0000

1. 0000



4554

Manville - Industrial Insulations
June 25, 1958

R.K. Hoagland
H.L. Pierson
E.R. Williams, Research ✓
E.C. Lindstrom, DHQ
S. Collier, GHQ
D. Gallagher
R. Jacobs
C.H. Jensen, Waukegan

Manufacturing Specifications
Cements

The Manville Factory has discontinued manufacturing cement products.

Please cancel and remove from your files, the following Manufacturing Specifications:

<u>Mfg. Spec.</u>	<u>Product</u>
✓ CT-10 CANCELLED	304 Asb. Cement
✓ CT-15 CANCELLED	319 Asb. Cement
✓ CT-25 CANCELLED	0352 Asb. Cement
✓ CT-36 CANCELLED	Special 450 Cement for U.S.N.
→ CT-45 CANCELLED	#678 Semi-Refractory Cement
✓ CT-50 CANCELLED	MX 3808 (For Armstrong Cork) (CT-5)
✓ CT-55 CANCELLED	Asbestile Fibrous Mineral
✓ CT-60 CANCELLED	Asbestoment "S"
✓ CT-4 CANCELLED	301 Cement
✓ CT-5 CANCELLED	302 Cement (CT-50)
✓ CT-35 CANCELLED	450 Cement
✓ CT-40 CANCELLED	500 Insulating Cement
✓ CT-65 CANCELLED	Fil-Insul
✓ CT-70 CANCELLED	Fil-Insul, Type "V"
✓ CT-71 CANCELLED	Fil-Insul, Type "V-10"
✓ CT-75 CANCELLED	Fibrofil
✓ CT-90 CANCELLED	Stove Putty Filler
✓ CT-95 CANCELLED	Superex Cement for Navy
✓ CT-96 CANCELLED	Railway Passenger Car Underflooring
✓ CT-100 CANCELLED	Asbestos Textile Adhesive
✓ CT-101 CANCELLED	Thermobestos Adhesive
✓ CT-105 CANCELLED	Ferrotite Iron Compound
✓ CT-106 CANCELLED	Fireproof Glue
✓ CT-120 CANCELLED	Vitribestos Solution
✓ CT-130:5 CANCELLED	Plastiseal F Cement
✓ CT-115 CANCELLED	Standard Fibrous Adhesive Insulating Products Adhesive

S. Bonet

Copy
3/14/76

CANCELLED

These ingredients in mixer in the order and quantities shown below:

Quantity	Material	Unit	Weight	Total
6000	6-2-50 (Mm. 2) Silica	2 bags - 250 wgt.	995	35
6000	Limestone	6 bags	560	50
6000	M.M. & A.B. Silicon Flour	1 bag - 400 wgt.	160	15
			1120	100 %

MANUFACTURING INSTRUCTIONS

- Mix ingredients until mass is uniform
- Mixing material 100 per bag (Mm) as follows:

Quantity	Material
6000	Waterproof Respiratory Count Bags - Plain Bag type
- Stand bag with product name, net weight and date in code.

TRADE SECRET
J-M 83

X- INDICATED CHANGE REASON: New Specification for new product.

AUTHORITY FOR CHANGE: P.D.E. No. 907 dated June 26, 1964

FILE-HOLDERS					BLD. DEPT.	LOCAL COST DEPT.	RESEARCH DEPT.	GEN. L & C. DEPT.	GEN. COST DEPT.	LOCAL L & C. DEPT.
--------------	--	--	--	--	------------	------------------	----------------	-------------------	-----------------	--------------------

SUPERSEDES:

DATE ISSUED
7/2/64

[illegible]

P

2

4

8

LM1-2 Retractory Cement