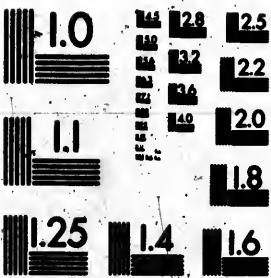


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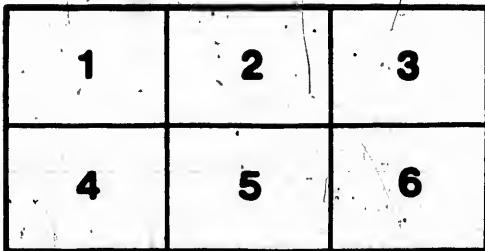
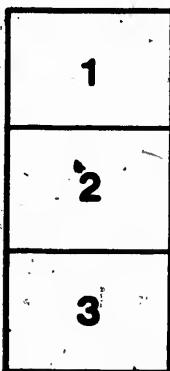
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WILLIAM SCLATER & CO., Limited,

MINERS AND MANUFACTURERS OF ASBESTOS MATERIAL.

AND DEALERS IN

Steamboat, Engineers' and Manufacturers' Supplies,

42, 44 & 46 FOUNDLING STREET, MONTREAL,

CORNER OF ST. PETER STREET, NEAR ST. ANN'S MARKET.

SOLE AGENTS IN THE DOMINION FOR

ASBESTOS PACKING Co., Boston,
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ASBESTOS

FIRE DEPARTMENT
SUPPLIES :

STEAM FIRE ENGINES,
HAND FIRE ENGINES,
FIRE HOSE COUPLINGS,
BRANCH PIPES,
FIRE EXTINGUISHERS,
STEAM TUBE CLEANERS,
TUBE BRUSHES, BOILER COMPOUND,
LUBRICATING GRAPHITE.

**WHITE & COLORED
COTTON WASTE.**

Cotton Waste, Oils (Cylinder and Lubricating), Lubricating Greases,
Shafting Oilers, **HAIR FELT,**
Belt Dressing, Flags, Tents, Fenders and Tarpaulins.

TARPAULINS TO RENT.

WILLIAM SCLATER & CO'S ASBESTOS + WAREHOUSE,

42, 44 & 46 Foundling Street,

Corner St. Peter St., near St. Ann's Market,

• • • MONTREAL.

Indestructible, Self-Lubricating, for Piston Rods, Valve Seats, Throttle Valves, Stuffing Boxes of High and Low Pressure and Rotary Engines, and wherever Superheated Steam or Acids are used.

From the extraordinary properties of Asbestos, its imperishability or indestructibility by any degree of heat (either wet or dry) or any acid, and its inherent lubricating qualities, this substance above all others seems peculiarly suited for use as a steam packing, and renders it adaptable to all the uses for which, heretofore, many different and special kinds of packing have been used.

In all sizes of rope, from $\frac{1}{4}$ inch to 3 inches diameter. (Thoroughly oil before using.) per lb.

Made from pure Asbestos, finest quality and strongest fibre, for use in Locomotive Domes, Steam-chest, Covers, Manholes, Hand Holes, Cylinder Heads, Pipe Joints, Flange Joints, Acid Joints, &c.

We claim for this Packing:

- 1st. It is 40 per cent. lighter than Rubber.
- 2nd. It does not require to be used as thick as Rubber.
- 3rd. As the steam or water causes it to expand, it does not require to be screwed on so tight as Rubber.
- 4th. It can be used over and over again without injury.
- 5th. It will adapt itself to uneven surfaces.
- 6th. It makes a perfect and permanent joint, and will not oxidize the Iron.

We have it in rolls and sheets 40 x 44 inches, from 1-32 to $\frac{1}{4}$ thick.
Give coat of Blacklead or Plumbeago before application. Use chisel or sharp instrument to cut it.

ASBESTOS LAMP WICK PACKING

For use in packing valve stems, air brakes, &c.

This packing consists of long, fine fibres of Asbestos, twisted so as to form a wicking, and for packing valves, &c., where hitherto cotton or hemp wick has been used, it has no superior.

For packing the numerous valves, in hotels or buildings heated by steam, or the pumps on locomotive engines, we guarantee its efficiency, as it will not burn, and will outwear any packing now used.

ASBESTOS LOOSE PACKING

For use in packing small valve stems, pipes, and other special uses.

It consists of fine fibres of pure Asbestos, prepared in such a manner that it can be twisted into any desired shape, and on account of its fire and acid proof qualities, is far superior to any of the cotton or hemp packings commonly used.

Put up in packages of one pound and upwards.

INSTRUCTIONS

FOR USING

ASBESTOS PACKING

For Pistons, Valve Seats, Throttle Valves, Stuffing Boxes of high and low pressure, and Rotary Engines. Superheated Steam or Acids do not injure Asbestos Packing.

1st. From $\frac{1}{4}$ " to 2" dia. Cut with sharp knife or chisel in proper lengths for rings, a little larger than the piston rod, and pack so as to break joints; fill the stuffing box full as possible, and screw up very tightly at first.

2nd. After running a day or two, screw up and add another ring if practicable.

3rd. Oil or grease the Packing thoroughly before using. (Mineral oils are the most suited, but not absolutely necessary.)

4th. The Packing should be $\frac{1}{2}$ larger than space in stuffing box.

5th. Oil of any kind will not injure the Packing.

ASBESTOS-SHEET PACKING FOR STEAM JOINTS.

FROM $\frac{1}{4}$ " TO $\frac{1}{2}$ " THICK.

It is $\frac{1}{2}$ lighter than rubber, will cost less, make a better and more lasting joint—in fact, Asbestos is the best jointing material in the world.

Give a coat of Blacklead, and it can be taken off and on as often as you like without injury.

INSTRUCTIONS

FOR USING

WILLIAM SCLATER & COMPANY'S

ASBESTOS CEMENT + FELTING.

THE ONLY PERFECT FIRE-PROOF COVERING FOR STEAM PIPES, BOILERS, &c., KNOWN.

1st. Work up the material to the consistency of ordinary mortar, with water, in the usual way.

2nd. For covering Pipes, cut strips of coarse cotton or canvas seven or eight inches wide, long enough to fasten around the pipe to be covered, spread the cement (prepared as above) on the strips about one-half inch in thickness, then apply to pipe as you would a putty. When dry remove the cotton, and the cement will adhere to the pipe. Subsequent coats should be applied with a trowel, same as ordinary mortar. Care to be taken that each coat is dry before the next is applied. Score each coat but the last, and you will find that the next coat will adhere better.

3rd. For Boilers, make a thin wash of the material, and apply to the surface of the Boiler as you would whitewash: this will improve the cement adhering to the iron. Apply with a trowel, and see that each coat is dry and scored before applying the next. The surface of the pipes or boilers when covered should be as smooth as a finished plastered wall.

PLASTIC ASBESTOS CEMENT PIPE AND BOILER COVERING.

For covering Hot Air and Steam Pipes, Boilers, Stills, &c.

This material is composed of Asbestos fibre and a cementing compound, which forms a light porous covering, partaking of the nature of a Felt and a Cement. It is put up day in barrels, to be mixed with water to the consistency of mortar, or will be supplied ready for use if desired. It is applied with a trowel, and forms the most economical and effective non-conductor in use. One barrel will cover a service of about 40 square feet, one inch thick, PLAT measurement. It can easily be applied by any one.

"EXTRA CEMENT FELTING," for Hot Blast Pipes and Furnaces, also especially valuable for "filling" or "deadening" floors of factories, storehouses, &c. It is perfectly Fire-proof.

ASBESTOS LUBRICATING COMPOUND.

To be used with or without our Compression Cups, for Engines, or Copper Pin Cups for Shafting.

There are to-day seventy-five Steamers running on the Upper and Lower St. Lawrence lubricated entirely with this Compound, at a saving of 75 per cent., to owners over the value of Oil.

Now, it is not the OIL you use, but the OIL you lose, that costs the money. Our principle is Lubricating with solid instead of liquid. This is an superior lubricant, which cannot be surpassed. It has been thoroughly tested. It will effect an enormous saving over oil; does away with friction. The coldest weather has no effect on it. No dropping from shafting, doing away with risk of spontaneous combustion, in a great saving in waste. It has been used with the utmost success by Paper, Pump, Saw, Cotton, Rolling and Woolen Mills, Sugar Refineries, Gas Works, and for all Machinery with Heavy Bearings. We claim for this Lubricator, Economy, Durability and perfect Lubrication without friction, gumming or running.

LET

Width
in
Inches.

1	11
1 1/2	12
2	13
2 1/2	24
3	24
3 1/2	34
4	34
4 1/2	44
5	44
6	54
7	64

Double
Ribbed

Cer 1
5-16 Inch
24-30.

A
tory can

FUNDAMENTAL REQUIREMENTS OF COVERINGS.

1st.—It must be Fire-Proof, No Organic Matter.

2nd.—It must be as nearly a perfect non-conductor of heat as it is possible to obtain.

3rd.—It must be perfectly free from ingredients injurious to iron.

4th.—It must be of such material that it will not settle to the bottom of its enveloping wrapper and must not crumble or crack after having been exposed for a long time to the highest temperature and to the jarring of the pipes and to their expansion and contraction, but must keep its original shape.

5th.—It must be easily applied and easily removed and re-applied.

6th.—It must be light in weight and contain numberless minute air-spaces. If the air-spaces are of appreciable size, the air shut up within is of but little use as a non-conductor of heat, owing to convection and circulation within the spaces. A covering using these visible air-spaces, if it feel fairly stiff to the touch, simply shows that a current of air within is carrying the heat to some other point where it may escape.

7th.—The adhesive or glutinous properties of a Covering should be composed of materials NOT affected and destroyed by long exposure to heat and also not injurious to the porous properties of the Covering.

Our Coverings fully meet these Fundamental Requirements and are the Only Coverings which Combine them all.

OUR FITTINGS.

OUR :		FOR FITTINGS.									
Inch	Diameter of Pipe	Weight of Covering per Lineal Foot.	Price per Lineal Foot.	Ella's and 45° Valves	Traps	Globe Valves	Crosses	Flange and Maleable Fittings			
1-2 In.	8 oz.	\$0.18	\$0.20	80 30	25	\$0.35	\$0.30				
3-4 "	"	"	"	35	35	45	35				
4-5 "	"	"	"	35	35	45	35				
5-6 "	"	"	"	35	35	45	35				
6-7 "	"	"	"	35	35	45	35				
7-8 "	"	"	"	35	35	45	35				
8-9 "	"	"	"	35	35	45	35				
9-10 "	"	"	"	35	35	45	35				
10-12 "	"	"	"	35	35	45	35				
12-14 "	"	"	"	35	35	45	35				
14-16 "	"	"	"	35	35	45	35				
16-18 "	"	"	"	35	35	45	35				
18-20 "	"	"	"	35	35	45	35				
20-22 "	"	"	"	35	35	45	35				
22-24 "	"	"	"	35	35	45	35				
24-26 "	"	"	"	35	35	45	35				
26-28 "	"	"	"	35	35	45	35				
28-30 "	"	"	"	35	35	45	35				
30-32 "	"	"	"	35	35	45	35				
32-34 "	"	"	"	35	35	45	35				
34-36 "	"	"	"	35	35	45	35				
36-38 "	"	"	"	35	35	45	35				
38-40 "	"	"	"	35	35	45	35				
40-42 "	"	"	"	35	35	45	35				
42-44 "	"	"	"	35	35	45	35				
44-46 "	"	"	"	35	35	45	35				
46-48 "	"	"	"	35	35	45	35				
48-50 "	"	"	"	35	35	45	35				
50-52 "	"	"	"	35	35	45	35				
52-54 "	"	"	"	35	35	45	35				
54-56 "	"	"	"	35	35	45	35				
56-58 "	"	"	"	35	35	45	35				
58-60 "	"	"	"	35	35	45	35				
60-62 "	"	"	"	35	35	45	35				
62-64 "	"	"	"	35	35	45	35				
64-66 "	"	"	"	35	35	45	35				
66-68 "	"	"	"	35	35	45	35				
68-70 "	"	"	"	35	35	45	35				
70-72 "	"	"	"	35	35	45	35				
72-74 "	"	"	"	35	35	45	35				
74-76 "	"	"	"	35	35	45	35				
76-78 "	"	"	"	35	35	45	35				
78-80 "	"	"	"	35	35	45	35				
80-82 "	"	"	"	35	35	45	35				
82-84 "	"	"	"	35	35	45	35				
84-86 "	"	"	"	35	35	45	35				
86-88 "	"	"	"	35	35	45	35				
88-90 "	"	"	"	35	35	45	35				
90-92 "	"	"	"	35	35	45	35				
92-94 "	"	"	"	35	35	45	35				
94-96 "	"	"	"	35	35	45	35				
96-98 "	"	"	"	35	35	45	35				
98-100 "	"	"	"	35	35	45	35				

The sections are 36 inches in length. A sufficient number of fittings required, add additional charge. Sold in full sections only.

By use of these fittings much time can be saved in the application of the covering, and a saving for each foot to the contractor.

To each fitting, the steel can be removed and packed without removing the covering.

WE EMPLOY CONTINUA
LLY A STAFF OF EXP-
PERIENCED WORKMEN
AND APPLY OUR MATÉ-
RIALS BY CONTRACT, IF
REQUIRED. EACH BAR-
REL CONTAINS SUFFI-
CIENT TO COVER 40 SQ.
FEET ONE INCH THICK.

SLATER'S RED STITCHED COTTON BELTING,

FOR MAIN DRIVING, COTTON MILLS, PAPER MILLS, PULP MILLS, SAW MILLS, MACHINE SHOPS, MINES, &c.

IN LADING THIS BELT USE AN AWL INSTEAD OF A PUNON.

	14	14	2	24	24	3	34	4	5	6	7	8	9	10	11	12	Inches.
4-Ply.	\$34	\$56	18	20	24	24	27	31 $\frac{1}{4}$	36	45	54	63	72	81	90	99	108 per Ft.
6-Ply.	3	34	4	41	5	6	7	8	9	10	12	13	14	15	16	17	18 Inches.
8-Ply.	30	42	48	54	60	72	84	96	108	120	144	156	168	180	192	204	216 per Ft.
10-Ply.	5	7	8	9	10	11	12	14	15	16	17	18	20	21	30	36	40 Inches.

COTTON FIRE HOSE Canvas Hose, plain and Rubber Lined.

PRICE LIST.

LEATHER BELTING

HUNT & CONNELL'S Glass Tube Cutter.

Patented Jan. 26th, 1886, and May 24th, 1887.

For CUTTING GAUZE GLASSES
to LENGTH.

One arm has a scale in inches and fractions of an inch, a slide stop with set screw and a rotary cutter at the end. This arm is inserted in the end of the glass tube to the required distance, against the slide stop or gauge, the outside of the glass tube resting in the circled end of the other arm. With a slight pressure of one hand on the handles, and a rotation of the glass with the other hand, the rotary cutter makes an even cut around the inside of the tube, and a very little pressure breaks it off.

Two sizes are made, Nos. 1 and 2.

No. 1 has a scale up to 5 inches.

Price, \$6.50 each.

No. 2 up to 7 inches. Price, \$3.00

Recutting List.

GET YOUR FILES "RECUT" AND SAVE 40 P.C.
GUARANTEED TO HAVE SATISFACTION.

ROUND, MILL SAW AND SQUARE.			HAND, HALF ROUND, FLAT AND S QUARE.		
In.	Per doz. RAST.	Per doz. RE CUT.	In.	Per doz. RAST.	Per doz. RE CUT.
0	\$6	\$6	0	\$6	\$78
7	68	78	7	89	96
8	84	96	8	96	109
0	90	108	1	120	130
10	120	130	1	142	140
11	144	150	1	164	162
12	172	182	2	200	210
14	240	248	3	278	280
15	258	312	3	318	312
16	344	370	4	400	440
17	300	440	5	404	502
18	480	520	5	544	672

HORSE RAILS.

In.	Per doz.	In.	Per doz.
12	\$2.30	3 & 3½	\$ 32
13	2.88	4	36
14	3.44	4½	40
15	4.00	6	44
16	4.80	7	53
		8	58
		9	62
		10	1.56

FOR SALE BY
WM. SLATER & CO., Limited,

42, 44, 46 FOUNDLING STREET,

MONTREAL.

All BELTS not entirely satisfactory can be returned at our expense.

REVISED PRICE LIST OF FILES AND RASPS.

Mill and Round.

INCH.	BASTARD	2ND CUT	SMOOTH	INCH.	BASTARD	2ND CUT	SMOOTH	INCH.	BASTARD	2ND CUT	SMOOTH	INCH.	BASTARD	2ND CUT	SMOOTH
4	\$1.80	\$2.15	\$2.10	4	\$2.00	\$2.10	\$2.05	4	\$2.25	\$2.70	\$3.00	4	\$2.50	\$3.00	\$3.20
5	2.60	2.10	2.05	5	2.20	2.00	3.00	5	2.50	3.00	3.30	5	2.80	3.35	3.70
6	2.25	2.05	2.05	6	2.50	2.05	3.25	6	2.80	3.30	3.65	6	3.20	3.80	4.15
7	2.55	3.00	3.30	7	2.00	3.30	3.75	7	3.20	3.75	4.15	7	3.70	4.35	4.80
8	2.00	3.30	3.70	8	3.40	4.00	4.35	8	3.70	4.35	4.75	8	4.30	5.00	5.50
9	3.30	3.85	4.20	9	4.00	4.70	5.10	9	4.35	5.10	5.55	9	5.00	5.85	6.40
10	3.80	4.40	4.80	10	4.70	5.15	5.00	10	5.20	6.00	6.55	10	5.80	6.75	7.50
11	4.50	5.20	5.05	11	5.00	6.50	7.05	11	6.30	7.30	7.65	11	7.70	7.75	8.15
12	5.10	6.20	6.75	12	6.70	7.70	8.10	12	7.50	8.60	9.40	12	7.80	9.00	9.75
13	6.50	7.15	8.05	13	8.00	9.15	10.00	13	8.00	10.20	11.00	13	9.40	10.40	11.25
14	7.80	8.00	9.05	14	9.20	10.00	11.80	14	10.50	12.00	13.00	14	10.00	12.10	13.10
15	9.30	10.00	11.45	15	11.20	12.75	13.75	15	12.30	14.00	15.10	15	12.10	14.15	15.25
16*	11.00	12.50	13.40	16	13.10	14.85	16.00	16	14.30	16.30	17.50	16	14.50	16.50	17.70
17	12.00	14.00	15.00	17	15.25	17.25	18.15	17	16.00	18.75	20.00	17	16.10	18.10	20.50
18	15.10	16.00	18.10	18	17.05	19.75	21.20	18	19.20	21.50	23.00	18	19.00	22.00	24.50

EXTRAS.

MILL. Double Cut, Advance 1 inch.
Narrow Points " 1 "
" 1/2 Round Edges " 1 "
Cross Cut Rasp (Blunt) " 2 "

EXTRAS.

CROSS BLAST (Double Cut), Advance 2 in.

WILLIAM SCLATER & CO., LIMITED
MONTREAL.

EXTRAS.

KNIFE, HIGH BACK HALF RD (Blunt) " 2 "
Open " 2 "
FEATHER EDGE " 2 "

Inch.	3	3½	4	4½	5	5½	6	7	8	9	10	11	12	13	14
TAPERS	Single Cut	1.10	1.10	1.20	1.10	1.70	2.00	2.10	3.00	3.80	4.00	5.70	7.20	9.00	11.00
SLIM TAPERS	"	1.20	1.20	1.30	1.35	1.70	1.00	2.10	2.50	3.00	3.70	4.50	5.50	6.80	8.00
PITSAW BLAST	"	2.10	2.10	2.20	2.30	2.50	2.80	3.20	3.70	4.30	5.00	5.80	6.70	7.70	

PAT. "DOUBLE-ENDER" SAW FILES

EXTRAS.

HANDSAW, Heavy Blunt-Take, Double Cut price, Light " " Slip Taper

TAPER POINTS, same price

UNDERSAW AND IRON SHEET SCISSORS, Blunt, Single Cut, Take Price, TAPER, pointed at both ends without handles, double the price of Slim Tapers of half their length, HAMMERS, with "Double End" Nas. File and Tapers, packed per dozen, net

Inch.

Inch. 6 7 8 9 10 11 12 13 14 15 16 17 18

HORSE RASPS, BLUNT

0.50 7.50 9.00 10.70 12.70 15.00 17.00 20.50 23.70

TANGED

0.00 10.25 12.00 11.00 10.50 10.50 23.00

WOOD RASPS, HALF ROUND AND FLAT

4.20 5.00 6.10 7.30 8.75 10.40 12.30 11.50 10.00 10.00 22.50

CABINET RASPS

0.00 7.00 8.20 0.00 11.20 13.00 15.00 17.20 18.00 22.20 25.00

FILERS

3.00 3.50 4.00 4.50 5.25 6.50 8.00 14.50 16.00 16.00 22.50

SHOE RASPS, OVAL

3.50 4.00 4.50 5.00 5.75 7.50 8.50

HALF ROUND AND FLAT

3.00 3.50 4.00 4.50 5.25 7.00 8.00

EXTRAS (GENERAL)

BLUNT FILES, not specified, advance one inch on respective Kinds and Cuts.

DEAD SMOOTH, double the price of Bastard Cut.

SIZES BELOW 1 INCHES, not specified, add one inch price; 1/2 INCHES NOT

OVER, take next higher full inch price.

SINGLE OR FLOAT CUT, not specified on Regular shapes, take Double Cut price.

Rough Cutters, USNIX CUT, based on OTHER THAN IRREGULAR CUTS, not specified, made upon Regular or Standard shaped Blanks, advance one inch on respective Kinds and Cuts.

IRREGULAR Goods.—All lengths above those listed, and Files varying from Standard Sizes, to be classed as Irregular and subject to Special price.

OUR SPECIALTIES:

Asbestos Piston and Wick Packings.

Rubber Sheet Packing.

Asbestos Mill Board.

Rubber Core Packing.

Asbestos Fire Proof Sheatings.

Square Flax Packing.

Asbestos Cements.

Square Core Flax Packing.

Asbestos Plastic Stove Lining.

Uridurian Packing.

Asbestos Retort Cement.

Plumbago Sheet Packing.

Asbestos Cloths.

Asbestos and Rubber Packing.

Asbestos Locomotive Coverings.

Jenkins Packing.

Asbestos Removable Coverings.

Soapstone Packing.

Mineral Wool, for deadening purposes.

Flax Packing.

Cotton Garden Hose.

Jute Packing.

Rubber Garden Hose.

Russia Packing.

Canvas Hose, all sizes.

Italian Packing.

Rainbow Packings.

MARINE AND NAVAL STORES:

Cordage, Oakums.

Galvanized Pails, Indurated Buckets.

Lamps and Side Lights.

White Lead, Copper Paint.

Blocks, Shaves, and Gins.

Oxides, Grounds and Dry.

Rosin, Pitch and Tar.

Magnahestos Dry Cement in Bags, for Pipe and Boiler Coverings.

Magnesia Plastic Cement, Dry.

Asbestos Sponge Cement.

Cotton Duck, Hemp Canvas.

