

**OIL STONES****BEHR-MANNING**

Best grade of Washita natural stone. Selected especially for its quick sharpening qualities. Carefully finished. Uniform grit throughout. Free from hard or soft spots or streaks.

**Washita**

Size—About 6x2x $\frac{3}{4}$  to 1 inches.

Each ▲ Each  
**F5648G (WB6) X2D04**.....\$3.10

One in box. Wt. Box, 1 lb.

**Emery Bench Stone****Two Grits**

Made of pure emery. One side coarse for fast cutting, the other side fine grit for imparting a keen edge. Size 6x2x1 inches.

Each ▲ Each  
**F5646G (UPB6) D4C2★**.....\$0.65

One in box. Wt. box  $\frac{3}{4}$  lb.

**OIL STONES****BEHR-MANNING****Queer Creek—For Oil or Water**

A light gray, nicely finished stone of soft coarse grain. Cuts rapidly and imparts a good edge. Intended for grinding down dull tools or sharpening those intended for coarse work.

**Mounted**

Oak locked corner boxes

Each			Size, ins.	Wt. pkg., lbs.	▲ Each
<b>F5633G (KM5) D9C6</b>			4 $\frac{7}{8}$ x1 $\frac{3}{4}$	1	\$1.45
<b>F5634G (KM7) X1D20</b>			6 $\frac{3}{4}$ x1 $\frac{7}{8}$	1 $\frac{3}{8}$	1.80

One in pkg.

**Not Mounted**

Each			Size About ins.	Wt. box, lbs.	▲ Each
<b>F5631G (KB6) D4C2★</b>			6x2x $\frac{3}{4}$ to 1	1	\$0.65
<b>F5632G (KB8) D6C0★</b>			8x2x $\frac{3}{4}$ to 1	1 $\frac{1}{16}$	.90

One in box

**INDIA****Combination Stones**

One face fine and one coarse grit

Each			Size, inches	Wt. box, lbs.	▲ Each
<b>F5616G (IB6) X1D71</b>			6x2x1	1 $\frac{3}{16}$	\$2.60
<b>F5618G (IB8) X2D04</b>			8x2x1	1 $\frac{3}{4}$	3.10

One in box

**OIL STONES****HINDOSTAN****Not Mounted**

A fine sharp gritted soft sandstone. Cuts steel rapidly. For a quick edge use water. For fine edge use oil. Approximate size 8x2x1 to 1 $\frac{1}{4}$  inches.

Each Each  
**F5614G (H1) D9C0★**.....\$1.35  
 Wt. each 1 $\frac{1}{2}$  lbs.

One hundred-ten pounds in a case

**OIL STONE SLIPS****PIKE HARD ARKANSAS**

The best stone known for sharpening tools of engravers, surgeons, dentists and those using fine edge tools. Has an exceedingly sharp grit and will both cut and polish very hard metals. Assorted sizes 4x1 $\frac{3}{4}$  inches, back edge  $\frac{3}{8}$  to  $\frac{1}{2}$  inch, thin edge  $\frac{1}{8}$  to  $\frac{1}{16}$  inch.

Each ▲ Each  
**F5615G (HS4) X2D96★**.....\$4.45  
 One in box. Wt. box  $\frac{1}{4}$  lb.

**INDIA****Beveled Round Edge. Medium Grit**

			Size, in.	Wt. box, lbs.	▲ Each
<b>F5640G-MS44</b>			4 $\frac{1}{2}$ x1 $\frac{3}{4}$ x1 $\frac{1}{2}$ x $\frac{3}{16}$		
Each					
<b>F5640G (MS44) D8C0</b>			3 $\frac{3}{8}$		\$1.20

Twelve in box

**CARBORUNDUM**

For use on all curved edge wood cutting tools. They cut rapidly and hold their shape in definitely.

Size 4 $\frac{1}{2}$ x1 $\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{16}$  inches, Grade FF, Fine.

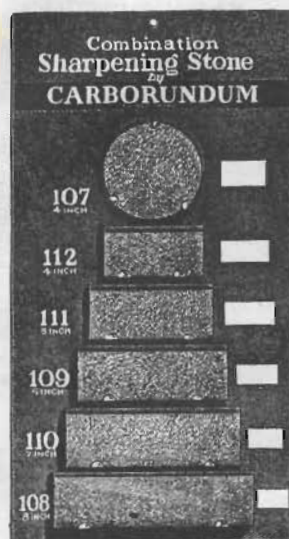
**Silicon Carbide**

Each ▲ Each  
**F5592G (183) D8C0★**.....\$1.19

One in box. Wt. box  $\frac{1}{4}$  lb.

## SHARPENING STONES

## CARBORUNDUM



## Combination

A combination of 2 grit sizes. One side coarse for sharpening very dull tools, the other side fine to produce a keen edge.

Silicon carbide. May be used wet or dry.

## Contents:

Quantity	Number	Size, inches	Each
2	F5575G-107	4 in. dia. x 1 in.	\$2.59
3	F5580G-112	4x1 $\frac{3}{4}$ x $\frac{5}{8}$	1.59
3	F5579G-111	5x2x $\frac{3}{4}$	2.15
3	F5577G-109	6x2x1	2.59
3	F5578G-110	7x2x1	2.79
3	F5576G-108	8x2x1	3.05

Complete with striking display panel 11 $\frac{3}{4}$ x 22 $\frac{1}{2}$  inches with strong wire easel.

## 17 Stones

Per Asst.

**FX-1400-G X27D73**

One asst. in ctn. Wt. ctn. 17 lbs.



## Cutlers' Combination

To properly sharpen and give a final keen edge to pocket knives, household knives, etc.

**Silicon Carbide**—Combination coarse and fine grits vitrified together. Size 12x2 $\frac{1}{2}$ x1 $\frac{1}{2}$  inches.

Each ▲Each  
**F5609G (333) X4D80**..... \$7.19

One in cardboard box. Wt. box 3 $\frac{1}{4}$  lbs.



## Combination

For carpenters and mechanics.

**Silicon Carbide**—One side coarse for sharpening very dull tools, the other side very fine to give required keen smooth edge.

Each			Size, in.	Wt. box, lbs.	▲Each
<b>F5576G (108)</b>	<b>X2D03★</b>	8x2x1	1 $\frac{3}{16}$	\$3.05	
<b>F5577G (109)</b>	<b>X1D71★</b>	6x2x1	1 $\frac{1}{16}$	2.59	
<b>F5578G (110)</b>	<b>X1D87★</b>	7x2x1	1 $\frac{1}{16}$	2.79	
<b>F5579G (111)</b>	<b>X1D44★</b>	5x2x $\frac{3}{4}$	$\frac{3}{8}$	2.15	
<b>F5580G (112)</b>	<b>X1D07★</b>	4x1 $\frac{3}{4}$ x $\frac{5}{8}$	$\frac{1}{4}$	1.59	

One in box



For sharpening carpenters' and mechanics' tools. Unusually fast cutting.

**Silicon Carbide**—Can be used dry or with oil or water. These stones are porous and may be tempered in their cutting by filling with wax or vaseline.

	Size, ins.	Grade
F5583G (118)	8x2x $\frac{3}{4}$	FF, Fine
F5582G (121)	6x2x1	FF, Fine
F5586G (124)	6x2x $\frac{5}{8}$	FF, Fine
F5587G (142)	4x1 $\frac{3}{4}$ x $\frac{1}{2}$	FF, Fine

Each		Wt. Box, lbs.	▲Each
<b>F5583G (118)</b>	<b>X1D76★</b>	$\frac{7}{8}$	\$2.65
<b>F5582G (121)</b>	<b>X1D60</b>	$\frac{7}{8}$	2.39
<b>F5586G (124)</b>	<b>X1D44</b>	$\frac{3}{8}$	2.15
<b>F5587G (142)</b>	<b>D8C0★</b>	$\frac{1}{4}$	1.19

One in box



## Machinists' Special

Fast cutting. For sharpening lathe and planer tools, milling cutters, reamers and drills.

**Silicon Carbide**—Size 4x1x $\frac{1}{2}$  inches. Oil or water may be used on this stone.

Medium grit.

Each ▲Each  
**F5608G (292M) D6C9**..... \$1.05

One in box. Wt. box  $\frac{3}{16}$  lb.

STAR ★ DENOTES BEST SELLER

## Round—Combination

Perfectly round. Entire surface can be used, with plenty of space for a sweeping, circular motion—keeps working surfaces smooth and even.

One side is coarse grit to remove nicks from edge, the other side is fine grit to make a keen smooth edge.

Bench Stones  
Fine and Coarse Grits

**Silicon Carbide**—Oil saturated. Coarse and fine sections vitrified together (not glued).

Size 4x1 inch

Each ▲Each  
**F5575G (107) X1D71★**..... \$2.59  
 One in box. Wt. box 1 lb.



## Fine and Coarse Grits. Round Edge

**Silicon Carbide**—Oil saturated, coarse and fine sections vitrified together (not glued).

Size 3x $\frac{5}{8}$  inch

Each ▲Each  
**F5599G (196) D8C0**..... \$1.19  
 One in box. Wt. box  $\frac{3}{8}$  lb.

**AXE STONES**

A light gray, square shaped, nicely finished stone of soft, coarse grain. Cuts rapidly and imparts a good edge to tools intended for coarse

work. Size 3x2x $\frac{5}{8}$  inches.

Each  $\Delta$  Each  
F5637G (KT13) D1C9★.....\$0.29

One in box. Wt. box  $\frac{3}{8}$  lbs.

**NORTON FASTCUT**

A fast cutting stone for pocket knives, office knives and small edge tools.

Made of a soft, fine grit, rapid-cutting material that makes a medium fine edge quickly. Size  $3\frac{1}{2} \times \frac{1}{8} \times \frac{3}{8}$  inch.

Per Box  $\Delta$  Each  
F5635G (KP13) X4D08★.....\$0.26

In individual ctns.

Twenty-four in attractive display box.  
Wt. box  $2\frac{1}{2}$  lbs.

Sold Only in Full Boxes

**UTILITY STONES**  
**CARBORUNDUM****General Purpose**

For household, sports and shop use. Individually mounted on colorful display cards.

Size  $3 \times \frac{3}{4}$  in.

Each  $\Delta$  Each  
F5602G (711) D3C2.....\$0.48

Ten in box. Wt. box  $\frac{3}{4}$  lb.

**GENERAL PURPOSE STONES****CARBORUNDUM**

For producing an excellent cutting edge quickly on tools and garden implements like sickles, grass hooks. Also on household knives and other small tools.

**Silicon Carbide**—Flat tapered shape. Size  $9\frac{1}{2} \times 1\frac{3}{8} \times \frac{1}{2}$  inch.

Each  $\Delta$  Each  
F5600G (198) D5C3★.....\$0.79  
Twelve in ctn. Wt. ctn. 5 lbs.

**POCKET STONES****CARBORUNDUM**

For sharpening pocket knives, scissors, ink scratchers and small tools.

**Silicon Carbide**—  
Size  $3 \times \frac{7}{8} \times \frac{3}{8}$  inch.

Per Box  $\Delta$  Each  
F5589G (149) X3D24★.....\$0.39  
Twelve in display box. Wt. box  $2\frac{3}{4}$  lbs.

Sold Only in Full Boxes

**CARBORUNDUM**

For sharpening pocket knives, ink scratchers, scissors and small edge tools.

Put up in convenient leather cases, practical for carrying home.

**Silicon Carbide**—  
Size  $3 \times \frac{7}{8} \times \frac{3}{8}$  inch.

Per Box  $\Delta$  Each  
F5590G (149L) X4D44.....\$0.56  
Twelve in display box. Wt. box  $1\frac{1}{8}$  lbs.

Sold Only in Full Boxes

STAR ★ DENOTES BEST SELLER

**HOME AND GARDEN STONES****CARBORUNDUM**

For sharpening lawn mower knives, hoes, axes, grass cutting shears, general household knives and other edge tools.

**Silicon Carbide**—Sharpening surface 6 inches long,  $1\frac{1}{2}$  inches wide,  $\frac{1}{2}$  inch thick. Red enameled wood handle.

Each  $\Delta$  Each  
F5567G (46) D8C0.....\$1.19  
One in box. Twelve in ctn. Wt. ctn. 3 lbs.

**KNIFE SHARPENERS****CARBORUNDUM**

For sharpening stainless steel and other household knives. Gives a keen, smooth edge quickly without marring or scratching blade finish.

**Silicon Carbide**—Sharpening surface 3 inches long. Enameled wood handle 4 inches long. Assorted blue, green or red.

Each  $\Delta$  Each  
F5569G (66) D5C3.....\$0.79  
One in box. Wt. box  $\frac{1}{2}$  lb.

**ABRASIVE FILES****CARBORUNDUM**

For farmers, blacksmiths, machinists and home gardeners. They cut as fast and clean as a metal file and are indispensable for sharpening mower knife sections without removing from machine, spades, hoes and other farm and garden tools.

**Silicon Carbide**—Sharpening surface 9 inches long. Thickness tapers  $1\frac{1}{4}$  to 1 inch. Width tapers 2 to  $1\frac{3}{8}$  inches and  $1\frac{1}{2}$  to 1 inch.

Orange enameled wood handle. Length over all  $13\frac{3}{4}$  inches.

Each  $\Delta$  Each  
F5568G (57) X1D33★.....\$1.99

Four in display box. Wt. box  $5\frac{3}{8}$  lbs.

## SCYTHE STONES

## CARBORUNDUM



Oval

Silicon Carbide—Fast, clean cutting.

Each			Size, ins.	Wt. Ctn. lbs.	▲ Each
F5596G	(190)	D4C3★	10x1	4¾	\$0.65
F5598G	(192)	D4C8★	10x1¼	7¾	.72
F5597G	(191)	D5C3	12x1¼	8¼	.79

Twelve in display ctn.

## CARBORUNDUM



Fast and clean cutting. Right grit to give scythes and grass hooks the proper edge.

Aluminum Oxide—Size 10x1½x¾x¾ inch.

Each			▲ Each
F5593G	(188)	D3C7★	\$0.56

Twelve in box. Wt. box 6 lbs.

## GRANGER



Fast cutting grit. Reinforced by a steel rod. Oil treated. A smooth cutting stone. Size 10x1¼ inch.

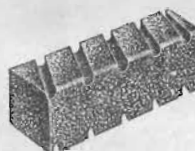
Each			▲ Each
F5645G	(TS4)	D2C1★	\$0.30

Twelve in display ctn.

Wt. ctn. 36 lbs.

## RUBBING BRICKS

## CRYSTOLON



Fluted

Used by concrete worker in removing mould marks and for other rubbing down work. Diagonal flute gives a shearing, fast cutting action.

Size 8x2x2 inches.

## Grit 20 Grain

Each			▲ Each
F5611G	(BF28)	X1D76	\$2.65

Loose. Wt. each 2¼ lbs.

## CARBORUNDUM BRICKS

## CARBORUNDUM



Fluted

The fastest cutting medium known to the concrete trade for removing mould marks, form marks and dressing down all kinds of concrete work. They are much more efficient than sand-stones (which are sometimes used for this work), and show much longer life. Fluted on two sides, which gives it a shear cutting action and allows a clearance for surplus material removed.

## Grit 20 Grain

Each			Size, ins.	Wt. Each, lbs.	▲ Each
F5604G	(HR243H)	X3D47	8x3x3	5½	\$5.39
F5605G	(HR242H)	X1D76	8x2x2	2¼	2.65
F5606G	(HR241H)	X1D36	6x2x2	1¾	2.05

Loose



With Handle

With a natural finish varnished wood handle, securely cemented to the brick.

This feature provides a decidedly handy method of using the brick and will be preferred by many concrete workers. Brick is fluted and measures 8x3½x1½ inches.

Each			Size, in.	▲ Each
F5607G	(HR250H)	X3D20	8x3½x1½	\$4.79

Loose. Wt. each 3½ lbs.

Each			Size, in.	▲ Each
F5603G	(HR252)	X2D19	6x3x1	\$3.29

Loose. Wt. each 1¾ lbs.



## DRY GRAPHITOID LUBRICANT

### PANEF



### All-Purpose Lub-A-Spray

For use on wood, metal, leather, rubber and plastic in home, office or shop. Stainless, greaseless and odorless. In plastic squeeze dispenser tube.

Per Card  
**F5142G (L900) X2D09**..... Per Tube  
Twelve tubes on card, 12 cards in ctn. Wt. ctn. 10 lbs. \$0.29

## LIQUID GRAPHITIC LUBRICANT

### PANEF



### Lub-A-Graph

Weatherproof liquid graphite for outdoor equipment, garden tools, locks, hinges, autos, etc. Highly penetrating, long lasting. No synthetic graphite. In plastic squeeze dispenser tube.

Per Card  
**F5144G (K21) X3D55**..... Per Tube  
Twelve tubes on card, 12 cards in ctn. Wt. ctn. 12 lbs. \$0.49

## PENETRATING OIL

### PANEF



### All-Purpose Panef-Oil

For home, office, car, etc. Flows freely at 50° below zero.

In transparent plastic squeeze dispenser tube.

Per Card  
**F5143G (0-1000) X1D80**..... Per Tube  
Twelve tubes on card, 12 cards in ctn. Wt. ctn. 11 lbs. \$0.25

## LOCK EASE



### Graphited Lock Fluid

Protects against freezing, rust, wear and makes locks work easier.

LOCK-EASE flows and penetrates rapidly, leaves a film of graphite in the innermost working parts and won't gum or harden. Insures proper functioning of all locks in the home, office, car or shop.

FOR COUNTER SALES—An attractive display easel is furnished with each carton of 12 four ounce cans.

In four ounce controlled flow can. (Either a drop at a time or a stream.)

Per Carton (12)  
**L1032F (LE) X3D92★**..... Per Can  
Twelve in ctn. Wt. ctn. 3½ lbs. \$0.49

**Sold Only in Full Cartons**

## STICK LUBRICANT

### DOOR-EASE



### A Stainless Stick Lubricant for Things that Squeak, Stick or Bind

Clean and easy to apply—used like a crayon on doors, latches and friction catches, drawers, windows, screens, etc.

Also excellent for clean and efficient lubrication of car door fittings, rubber bumpers, hood lacing, fan belts and other exposed surfaces.

After applying, it changes from a solid to an adhesive, plastic lubricant which performs efficiently under all weather conditions—will not dry up or wash off. It is also non-greasy and will not stain surfaces or soil fabrics.

Stick 4½ inches long, ½ inch in diameter.

Each one in a cellophane pouch.

Per Box  
**L1030F (B12) X1D08★**..... Per Stick  
Twelve sticks in attractive counter display box. Wt. box ½ lb. \$0.15

**Sold Only In Full Boxes**

STAR ★ DENOTES BEST SELLER

**ABOUT COATED ABRASIVES**

Coated Abrasive Products May Be Divided Into Five Important Classifications as Follows:

**Manufactured:**

Silicon Carbide  
Aluminum Oxide

**Natural:**

Garnet  
Flint  
Emery

**CHARACTERISTICS AND ORIGIN****SILICON CARBIDE**

Invented by Edward Goodrich Acheson in a little shop in Monongahela City, Pa. in 1891. Silicon Carbide is a product of the electric furnace, the result of fusing sand, coke, sawdust and salt at an extremely high temperature, resulting in a particularly sharp abrasive.

**Principal Uses**—For finishing leather—used principally in the manufacture of boots and shoes. For wet and dry sanding of lacquered surfaces.

**ALUMINUM OXIDE**

In 1899 Charles B. Jacobs invented the process for making Crystalline Alumina, or manufactured Corundum, in the electric furnace by the fusion of bauxite. Bauxite is the purest form of aluminum oxide found in nature in commercial quantities. The result of this process is a very hard tough, abrasive of unusual uniformity.

**Principal Uses**—For finishing and polishing of all types of metals, wood sanding and finishing.

**GARNET**

A natural mineral found in large quantities, principally in the Adirondack Mountains. Considerably harder than flint quartz and a particularly desirable abrasive for woodworking operations, although it is inferior in hardness to the artificial abrasives. Owes its particular advantage to its peculiar fracture, which results in grains having a chisel-like cutting edge.

**Principal Uses**—For wood sanding and finishing.

**FLINT OR FLINT QUARTZ**

A mineral found in many parts of the country and one of the older natural abrasives, and in its coated abrasive form known commonly as sandpaper.

**Principal Uses**—An inexpensive abrasive for general wood sanding and finishing. Also used on painted surfaces—not generally used in production, although widely used for general wood sanding.

**EMERY**

Turkish emery is a natural abrasive that has been used for generations. Emery has been superseded largely by the more efficient artificial abrasive—aluminum oxide.

**Principal Uses**—An inexpensive abrasive for all types of metal finishing—not generally used in production work.

**COATING BY THE ELECTROSTATIC PROCESS KNOWN AS ELECTROCOATED**

Electrical forces created by high voltage applied through the medium of perfected devices are being used in standing the grains on end in the glue bed on the paper backing. The result is a sanding surface that is sharper, faster, cleaner cutting because of a far higher percentage of keen upright points being permitted to contact the surface to be sanded. The flat-lying grains are practically eliminated. There is a uniform dispersion of the grain with pronounced clearance or space around each grain so that each stands up like a keen miniature cutting tool.

**COMPARATIVE GRADING CHART****ALL COATED ABRASIVE COMMODITIES**

Garnet	Lumnite and Electrocoated	Amunite	Luminox	Flint	Emery	Garnet	Lumnite and Electrocoated	Amunite	Luminox	Flint	Emery
		400	400							$\frac{1}{2}$	$\frac{1}{2}$
		320	320			1/0-80	1/0-80	80	80	1	1
8/0-280	8/0-280	280	280			$\frac{1}{2}$ -60	$\frac{1}{2}$ -60	60	60		$1\frac{1}{2}$
7/0-240	7/0-240	240	240	5/0		1-50	1-50	50	50	$1\frac{1}{2}$	2
6/0-220	6/0-220	220	220	4/0						2	$2\frac{1}{2}$
				3/0		1- $\frac{1}{2}$ -40	1- $\frac{1}{2}$ -40	40	40	$2\frac{1}{2}$	
5/0-180	5/0-180	180	180		3/0	2-36	2-36	36	36		3
4/0-150	4/0-150	150	150	2/0	2/0	2- $\frac{1}{2}$ -30	2- $\frac{1}{2}$ -30	30	30	3	
3/0-120	3/0-120	120	120	1/0	1/0	3-24	3-24	24	24	3- $\frac{1}{2}$	
2/0-100	2/0-100	100	100			3- $\frac{1}{2}$ -20	3- $\frac{1}{2}$ -20	20			
							4-16	16			

**QUANTITY PRICING SCHEDULE**

Abrasive products may be assorted to obtain quantity prices—any assortment of ten sleeves makes up a unit and receives the 1 to 6 unit prices.

Sheets—10 Sleeves Equal 1 Unit.

Household Packs—Display Box Equals 1 Sleeve.

Floor Rolls—1 Roll Equals 1 Unit.

Discs—Box of 100 Equals 1 Sleeve.

Economy Rolls—1 Roll Equals 1 Sleeve.

Belts—Box of 10 Equals 1 Sleeve.

Sander Refill Rolls—Box of 10 Equals 1 Sleeve.

## COATED ABRASIVES

Retail Shelf Products

## FLINT OR SANDPAPER

Recommended to the painter, carpenter, craftsman and handyman for ordinary jobs of sanding and finishing woodwork.

A superior grade of hard, sharp, pure flint, correctly graded and uniformly coated on best quality tough paper backing. It is sharp, fast cutting and durable.


KEEN  KUTTER

## 9x10 inch Sheets—In Sleeves

Packed in heavy cardboard sleeve which keeps stock in perfect condition, eliminates warped or broken sheets.



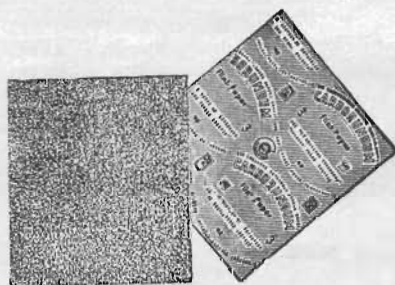
Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Size Grit	Sheets per Sleeve	Sleeves in unit Pkg.	Wt. lbs.	▲Per Sleeve
F5454GK	(KEF)	X2D16★	X1D76★	X1D49★	X1D27	Extra Fine (3/0, 4/0)	100	10	3	\$2.80
F5455GK	(KF)	X2D16★	X1D76★	X1D49★	X1D27	Fine (1/0, 2/0)	100	10	3 5/8	2.80
F5456GK	(KM)	X2D43★	X1D99★	X1D68★	X1D44	Medium (1/2, 1)	100	10	4 3/4	3.15
F5457GK	(KC)	X1D56★	X1D28★	X1D08★	D9C3	Coarse (1 1/2, 2)	50	10	4	2.03
F5458GK	(KEC)	X1D99★	X1D62★	X1D37★	X1D18	Extra Coarse (2 1/2, 3)	50	10	5 1/2	2.58

We Do Not Break Sleeves    Sleeves in a Unit Package 

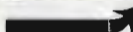
## CARBORUNDUM

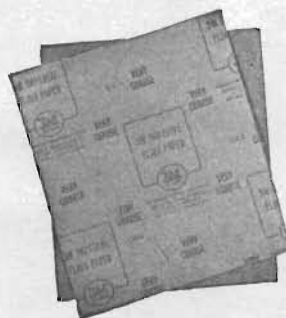
## 9x10 inch Sheets—In Sleeves

Packed in heavy cardboard sleeves. Eliminating warped or broken sheets.



Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Size Grit	Sheets per Sleeve	Sleeves in unit Pkg.	Wt. lbs.	▲Per Sleeve
F5444G	(CEF)	X2D16★	X1D76★	X1D49★	X1D27	Extra Fine (3/0, 4/0)	100	10	3	\$2.80
F5445G	(CF)	X2D16★	X1D76★	X1D49★	X1D27	Fine (1/0, 2/0)	100	10	3 5/8	2.80
F5446G	(CM)	X2D43★	X1D99★	X1D68★	X1D44	Medium (1/2, 1)	100	10	4 3/4	3.15
F5447G	(CC)	X1D56★	X1D28★	X1D08★	D9C3	Coarse 1 (1 1/2, 2)	50	10	4	2.03
F5448G	(CEC)	X1D97★	X1D62★	X1D37★	X1D18	Ex. Coarse (2 1/2, 3)	50	10	5 1/2	2.58

We Do Not Break Sleeves    Sleeves in a Unit Package 



Used for numerous light hand sanding jobs on wood surfaces. Flint mineral lacks hardness and toughness. Production paper is recommended where easier, faster sanding is desired.

## Imperial

## 9x10 Sheets—In Sleeves

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Size Grit	Sheets Per Sleeve	Sleeves in Unit Pkgs.	Wt. Sleeve, lbs.	▲Per Sleeve
F5449G	(IVF)	X2D16	X1D76	X1D49	X1D27	Very Fine	100	10	3	\$2.80
F5450G	(IF)	X2D16	X1D76	X1D49	X1D27	Fine	100	10	3 5/8	2.80
F5451G	(IM)	X2D43	X1D99	X1D68	X1D44	Medium	100	10	4 3/4	3.15
F5452G	(IC)	X1D56	X1D28	X1D08	D9C3	Coarse	50	10	4	2.03
F5453G	(IVC)	X1D99	X1D62	X1D37	X1D18	Extra Coarse	50	10	5 1/2	2.58

We do not break Sleeves. Sleeves in a unit package.

Note—When Ordering Full Unit Packages Prefix "FX" Instead of "F"

STAR ★ DENOTES BEST SELLER

## COATED ABRASIVES

Retail Shelf Products

## EMERY CLOTH

Recommended for use on many metals where finish and polish is of greater importance than amount of cut.

Emery is a natural abrasive, unusually hard and sharp, uniformly coated on strong flexible cloth for long continuous service.

KEEN  KUTTER


## 9x11 inch Sheets—In Sleeves

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Grit Size	Sheets per Sleeve	Sleeves in unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5433GK	(KECF)	X6D88★	X5D63★	X4D75★	X4D07★	Fine 2/0	50	10	3	\$6.25
F5434GK	(KECM)	X7D15★	X5D85	X4D94	X4D23	Medium 1/0	50	10	3½	6.50
F5436GK	(KECC)	X7D81★	X6D39	X5D40	X4D62	Coarse 1	50	10	4¾	7.10
F5438GK	(KECEC)	X4D51	X3D69	X3D12	X2D67	Extra Coarse 2	25	10	2¾	4.10

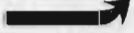
We Do Not Break Sleeves      Sleeves in a Unit Package 

## CORBORUNDUM

## 9 x 11 inch Sheets—In Sleeves



Per Sleeve		Less than Unit Pkgs.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Grit Size	Sheets per Sleeve	Sleeves in unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5413G	(CECF)	X6D88	X5D63	X4D75	X4D07	Fine 2/0	50	10	3	\$6.25
F5414G	(CECM)	X7D15	X5D85	X4D94	X4D23	Medium 1/0	50	10	3½	6.50
F5416G	(CECC)	X7D81	X6D39	X5D40	X4D62	Coarse 1	50	10	4¾	7.10
F5418G	(CECEC)	X4D51	X3D69	X3D12	X2D67	Ex. Coarse	25	10	2¾	4.10

We Do Not Break Sleeves—Sleeves in a Unit Package 

Note—When Ordering Full Unit Packages Prefix "FX" Instead of "F"

STAR ★ DENOTES BEST SELLER

## GARNET AND FLINT PAPER ASSORTMENT

### CARBORUNDUM



Cabinet Size—24 inches wide, 13 inches deep, 18 inches high.

Each Unit Contains:

#### Garnet Paper

Quantity	No.	Size Sheet in.	Size Grit
100	F 5486 G-GF6/0-220	9x11	Extra Fine
100	F 5485 G-GF5/0-180	9x11	Fine
100	F 5483 G-GF3/0-120	9x11	Medium
50	F 5481 G-GC0-80	9x11	Coarse

#### "Indian Head" Flint Paper

100	F 5444 G-CEF	9x10	Extra Fine
100	F 5445 G-CF	9x10	Fine
100	F 5446 G-CM	9x10	Medium
100	F 5447 G-CC	9x10	Coarse

1 Box of 10 Furniture Finishing Kits

50 Booklets "How to Sand"

1 Metal Display Rack

Per Assortment

✚R300B-G ▲X42D32

Paper and rack packed in two ctns. Wt. 57 lbs.

## FLINT AND EMERY PAPER ASSORTMENTS

### CARBORUNDUM



Cabinet size 24 in. wide, 13 in. deep, 18 in. high.

Each Unit Contains:

#### Indian Head Flint Paper

Quantity	No.	Size Sheet inches	Size Grit
100	F5444G-CEF	9x10	Extra Fine
100	F5445G-CF	9x10	Fine
100	F5446G-CM	9x10	Medium
100	F5447G-CC	9x10	Coarse
50	F5448G-CEC	9x10	Extra Coarse

#### Emery Cloth

50	F5412G-CECF	9x11	Extra Fine
50	F5413G-CECF	9x11	Fine
50	F5414G-CECM	9x11	Medium

1 Box of 10 Furniture Refinishing Kits

50 Booklets "How to Sand"

1 Metal Counter Display Rack

Per Assortment

✚R300-G ▲X42D15

#### Garnet Paper

Quantity	No.	Size Sheet inches	Size Grit
100	F5486G-GF6/0-220	9x11	Extra Fine
100	F5485G-GF5/0-180	9x11	Fine
100	F5483G-GF3/0-120	9x11	Medium
100	F5481G-GC0-80	9x11	Coarse
50	F5479G-GC1-50	9x11	Extra Coarse

#### "Red-i-cut" Waterproof Paper

50	F5533G-WA400	9x11	Extra Fine
50	F5532G-WA320	9x11	Fine
50	F5531G-WA280	9x11	Medium

1 Box of 10 Furniture Finishing Kits

50 Booklets "How to Sand"

1 Metal Counter Display Rack

Per Assortment

✚R300A-G ▲X51D13

Paper and rack packed in two ctns.

Wt. ctn. 57 lbs.

## SANDPAPER CABINET DEALS

3M



Bright green and yellow lacquer finish. Solidly constructed of  $\frac{3}{4}$  inch basswood with  $\frac{1}{4}$  inch masonite shelves.

Compact. Height 18 inches. Depth  $11\frac{1}{2}$  inches. Width 10 inches.

#### Production, and "Wetordry" Tri-M-ite Paper in Cabinet

Includes 1 cabinet plus 1 sleeve each of:

			Sheets Per Sleeve
Very Fine	220-6/0A	Production	100
Fine	120-3/0C	Production	100
Medium	80-1/0D	Production	50
Coarse	50-1D	Production	50
Very Coarse	36-2D	Production	50
Super Fine	400A	"Wetordry"	
		Tri-M-ite	50
Extra Fine	320A	"Wetordry"	
		Tri-M-ite	50
Very Fine	220A	"Wetordry"	
		Tri-M-ite	50

Per Deal

FX-K1-G X44D68

Packed in 2 ctns. Wt. 38 lbs.



#### 3M "IMPERIAL"

#### Flint Paper and Cabinet

Includes 1 cabinet plus 10 sleeves of:

	No. Sleeves	Sheets Per Sleeve
Very Fine	3M	2
Fine	3M	2
Medium	3M	3
Coarse	3M	2
Very Coarse	3M	1

Per Deal

FX-K4-G X21D95

Packed in 2 ctns. Wt. 56 lbs.

Items marked ✚ not carried in stock. Can only be furnished by shipping direct from factory, F. O. B., St. Louis, Mo. Full freight allowed.

**GARNET AND FLINT PAPER  
ASSORTMENT****CARBORUNDUM**

Cabinet Size—24 inches wide, 13 inches deep, 18 inches high.

Each Unit Contains:

**Garnet Paper**

Quantity	No.	Size Sheet in.	Size Grit
100	F 5486	G-GF6/0-220	9x11 Extra Fine
100	F 5485	G-GF5/0-180	9x11 Fine
100	F 5483	G-GF3/0-120	9x11 Medium
50	F 5481	G-GC0-80....	9x11 Coarse

**"Indian Head" Flint Paper**

100	F 5444	G-CEF.....	9x10 Extra Fine
100	F 5445	G-CF.....	9x10 Fine
100	F 5446	G-CM.....	9x10 Medium
100	F 5447	G-CC.....	9x10 Coarse

1 Box of 10 Furniture Finishing Kits

50 Booklets "How to Sand"

1 Metal Display Rack

Per Assortment

✚R300B-G X42D32

Paper and rack packed in two ctns. Wt. 57 lbs.

**FLINT AND EMERY PAPER  
ASSORTMENTS****CARBORUNDUM**

Cabinet size 24 in. wide, 13 in. deep, 18 in. high.

Each Unit Contains:

**Indian Head Flint Paper**

Quantity	No.	Size Sheet inches	Size Grit
100	F5444G (CEF)	9x10	Extra Fine
100	F5445G (CF)	9x10	Fine
100	F5446G (CM)	9x10	Medium
100	F5447G (CC)	9x10	Coarse
50	F5448G (CEC)	9x10	Extra Coarse

**Emery Cloth**

50	F5412G (CECEF)	9x11	Extra Fine
50	F5413G (CECF)	9x11	Fine
50	F5414G (CECM)	9x11	Medium

1 Box of 10 Furniture Refinishing Kits

50 Booklets "How to Sand"

1 Metal Counter Display Rack

Per Assortment

✚R300-G X42D15

**Garnet Paper**

Quantity	No.	Size Sheet inches	Size Grit
100	F5486G (GF6/0-220)	9x11	Extra Fine
100	F5485G (GF5/0-180)	9x11	Fine
100	F5483G (GF3/0-120)	9x11	Medium
100	F5481G (GC0-80)	9x11	Coarse
50	F5479G (GC1-50)	9x11	Extra Coarse

**"Red-i-cut" Waterproof Paper**

50	F5533G (WA400)	9x11	Extra Fine
50	F5532G (WA320)	9x11	Fine
50	F5531G (WA280)	9x11	Medium

1 Box of 10 Furniture Finishing Kits

50 Booklets "How to Sand"

1 Metal Counter Display Rack

Per Assortment

✚R300A-G X51D13

Paper and rack packed in two ctns.

Wt. ctn. 57 lbs.

**SANDPAPER  
CABINET DEALS**

3M



Bright green and yellow lacquer finish. Solidly constructed of 3/4 inch basswood with 1/4 inch masonite shelves.

Compact. Height 18 inches. Depth 11 1/2 inches. Width 10 inches.

**Production, and "Wetordry"  
Tri-M-ite Paper in Cabinet**

Includes 1 cabinet plus 1 sleeve each of:

			Sheets Per Sleeve
Very Fine	220-6/0A	Production	100
Fine	120-3/0C	Production	100
Medium	80-1/0D	Production	50
Coarse	50-1D	Production	50
Very Coarse	36-2D	Production	50
Super Fine	400A	"Wetordry"	
		Tri-M-ite	50
Extra Fine	320A	"Wetordry"	
		Tri-M-ite	50
Very Fine	220A	"Wetordry"	
		Tri-M-ite	50

Per Deal

FX-K1-G X44D68

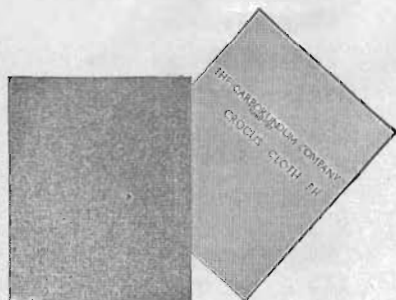
Packed in 2 ctns. Wt. 38 lbs.

**COATED ABRASIVES****Retail Shelf Products****CROCUS CLOTH**

Used to produce high polish on metal parts. Made by uniformly coating crocus (iron oxide) on a strong cloth backing.

**CARBORUNDUM**

9x11 inch Sheets



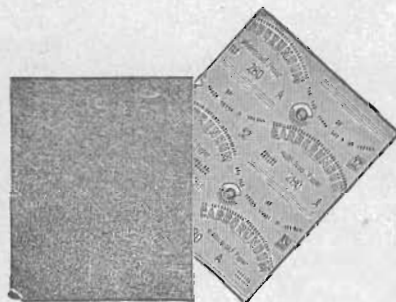
Per Sleeve		Net Less than Unit Pkg.	1 to 6 Unit Pkg.	7 to 14 Unit Pkg.	15 Unit Pkg.	Sheets per Sleeve	Sleeve in Unit Pkg.	Wt. Sleeve lbs.	▲Per Sleeve
F5409G	(Crocus)	X6D88★	X5D63★	X4D75★	X4D07	50	10	3	\$8.15

We Do Not Break Sleeves—Sleeves in a Unit Package →

**WATERPROOF GARNET PAPER****CARBORUNDUM**

9 x 11 inch Sleeves—In Sleeves

Produces uniformly smooth surfaces on all wet sanding operations. Used extensively in the woodworking trade for rubbing down varnish and lacquer coats. Thoroughly waterproofed it will not mat or pulp. Garnet is a natural abrasive noted for its purity, hardness and sharpness.



Per Sleeve		Net Less than Unit Pkg.	1 to 6 Unit Pkg.	7 to 14 Unit Pkg.	15 Unit Pkg.	Sheets per Sleeve	Sleeves in Unit Pkg.	Wt. Sleeve lbs.	▲Per Sleeve
F5541G	(WG8/0/280)	X3D80	X3D11	X2D63	X2D25	50	10	1½	\$4.50
F5539G	(WG6/0/220)	X3D80	X3D11	X2D63	X2D25	50	10	2½	4.50
F5537G	(WG4/0/150)	X4D69	X3D84	X3D24	X2D77	50	10	3	5.55
F5535G	(WG2/0/100)	X5D65	X4D62	X3D90	X3D33	50	10	3½	6.70
F5534G	(WG0/80)	X5D90	X4D90	X3D20	X3D74	50	10	3¾	6.90

We Do Not Break Sleeves—Sleeves in a Unit Package →

**HOUSEHOLD SANDPAPER****CARBORUNDUM—Handy Sandy**

Assorted grits. Cut to size 4½x5 inches and put up in a package.

Per Box		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Sheets per Pack	Packs per Box	Boxes per Unit	Wt. Box lbs.	▲Per Box
F5403G	(40)	X8D94	X7D30	X6D18	X5D28	15	50	4	12½	\$13.45
F5404G	(41)	X5D72★	X4D68★	X3D95★	X3D38	7	50	4	6½	8.60

Boxes Per Unit →

**HOUSEHOLD EMERY CLOTH**

CARBORUNDUM—Handy Sandy—4½x5½ inch Sheets

Per Box		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Sheets per Pack	Packs per Box	Boxes per Unit	Wt. Box lbs.	▲Per Box
F5405G	(42)	X5D54★	X4D54★	X3D83★	X3D28	5	25	4	3½	8.30

Boxes Per Unit →

Note—When Ordering Full Unit Packages Prefix "FX" Instead of "F"

STAIR ★ DENOTES BEST SELLER

## COATED ABRASIVES

Floor Sanding Coated Abrasive Products



## FLOOR SANDER COVERS

Behr-Manning

Resinized Speed-Grits

Floor sanding drum covers for rental machines.

Grit	Per Pkg. (25)	Per Unit (50)			Grit	Type	Wt. Pkg. (25), lbs.	Per Cover
		1-6	7-14	15 or More				
For American Little 8-Inch Machine (8x22 <sup>5</sup> / <sub>8</sub> -Inch)								
FX-FSCA-G (Specify Grit)								
0	X7D14	X11D03	X9D35	X8D83	Fine	Closekote Paper	6	\$0.40
½	X8D11	X12D53	X10D61	X10D02	Fine	Closekote Paper	7	.45
2	X11D62	X17D95	X15D21	X14D36	Medium	Closekote Paper	10	.50
2½	X13D19	X20D38	X17D27	X16D31	Medium	Closekote Paper	12	.55
3½	X17D34	X26D81	X22D71	X21D44	Coarse	Openkote Combination	10	.65
4	X18D31	X28D29	X23D97	X22D64	Coarse	Openkote Combination	11½	.70

**For Clarke 8-Inch Models DU-8, EC-8, MY-8 (8x20 $\frac{1}{4}$ -Inch)**

<b>FX-FSCC-G (Specify Grit)</b>								
0	X6D29	X9D72	X8D24	X7D78	Fine	Closekote Paper	5	.40
$\frac{1}{2}$	X7D26	X11D22	X9D50	X8D98	Fine	Closekote Paper	6	.45
2	X10D41	X16D08	X13D62	X12D87	Medium	Closekote Paper	9	.50
$2\frac{1}{2}$	X11D50	X17D77	X15D05	X14D21	Medium	Closekote Paper	10	.55
$3\frac{1}{2}$	X15D58	X24D08	X20D39	X19D26	Coarse	Openkote Combination	9	.65
4	X16D38	X25D32	X21D44	X20D25	Coarse	Openkote Combination	10 $\frac{1}{2}$	.70

25 in package, 50 in unit

**COATED ABRASIVES****Floor Sanding Coated Abrasive Products****GLUE-RESIN FLOOR PAPER****CARBORUNDUM**

For sanding new hardwood floors and refinishing old floors after paint, varnish or shellac has been removed. Uniformly coated, will cut freely and produce a perfect foundation for finish or refinish.

**Silicon Carbide in 50 Yard Rolls**

Per Roll	1 to 6 Unit Pkg.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Width, ins.	Weight Roll, lbs.	Rolls Per Unit	▲Per Roll
FX-SC00/100/8-G	X14D59	X12D36	X11D67.....	8	14	1	\$31.20
FX-SC0/80/8-G	X15D99★	X13D54★	X12D79.....	8	15	1	34.20
FX-SC½/60/8-G	X18D42★	X15D60★	X14D74.....	8	18	1	39.40
FX-SC2/36/8-G	X26D27	X22D26	X21D02.....	8	31	1	56.20

Rolls Per Unit

**GLUE-RESIN FLOOR COMBINATION****CARBORUNDUM**

Recommended for the most severe floor sanding operations. The first cut on old floors to remove paint, varnish and shellac. Also the leveling of uneven floors. Surface combination consists of silicon carbide grain glued to cloth with a paper backing.

**Silicon Carbide—Open Coat****In 50 Yard Rolls**

Per Roll	1 to 6 Unit Pkg.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Width, ins.	Weight Roll, lbs.	Rolls Per Unit	▲Per Roll
FX-FA3½/20/8-G	X33D48	X28D36	X26D79.....	8	40	1	\$60.60

Rolls Per Unit

**RESINITE FLOOR SANDING****3M**

(Section 4—Page 197)

Used for making sheets on all drum type floor surfacing machines.

**50 Yard Rolls**

Per Roll	1 to 6 Units	7 to 14 Units	15 Units	Width, ins.	Grit	Weight Roll, lbs.	Rolls Per Unit	▲Per Roll
FX-8 1/0-G	X18D42	X15D60	X14D74	8	Fine	15	1	\$34.20
FX-8/2-G	X26D27	X22D26	X21D02	8	Medium	31	1	56.20

Rolls per Unit

**RESINITE FLOOR COMBINATION****3M**

(Section 4—Page 197)

For severe floor sanding operation. First cut on old floors to remove old paint.

**In 50 Yard Rolls**

Per Roll	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Width, ins.	Grit	Weight Rolls, lbs.	Rolls Per Unit	▲Per Roll
FX-8/3½-G	X33D48	X28D26	X26D79.....	8	Coarse	40	1	\$60.60

Rolls per unit

STAR ★ DENOTES BEST SELLER

## COATED ABRASIVES

Floor Sanding Coated Abrasive Products

## GLUE-RESIN FLOOR SANDING DISCS



## CARBORUNDUM

## Silicon Carbide

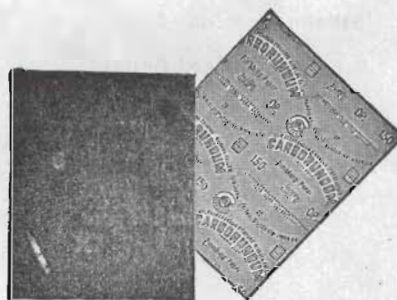
Especially adapted for use on edger or spinner type floor sanders. For sanding new hardwood floors and for finishing old floors after paint, varnish or shellac has been removed. Cuts freely and produces a perfect foundation for finish or refinish

Per Box		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Diam., ins.	Arbor Hole, in.	Discs per Box	Weight Box, lbs.	Discs per Unit	▲Per Box
F5355G	(SCD0/80)	X9D56	X7D39	X6D26	X5D91	7	7/8	100	8	300	\$15.80
F5356G	(SCD1/2/60)	X10D65	X8D23	X6D97	X6D58	7	7/8	100	9	300	17.60
F5359G	(SCD2/36)	X14D16	X10D94	X9D27	X8D75	7	7/8	100	12	300	23.40
F5363G	(SD0/80)	X4D72	X3D65	X3D09	X2D92	5	1	100	2	500	7.80
F5364G	(SD1/2/60)	X5D20★	X4D02★	X3D41	X3D22	5	1	100	2 1/2	500	8.60
F5367G	(SD2/36)	X7D14★	X5D52★	X4D67	X4D41	5	1	100	4	500	11.80

Discs Per Unit

## CARBORUNDUM

Industrial Coated Abrasive Products



## ALOXITE CABINET PAPER

Used for general purpose finishing of wood and metal sheets. 9x11 inches.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Grit Size	Sheets Per Sleeve	*Sleeves in Unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5525G	(A120)	X8D59★	X7D03★	X5D94★	X5D08★	120-3/0 Fine	100	10	3 1/2	\$9.30
F5526G	(A80)	X4D81★	X3D94★	X3D32★	X2D84★	80-1/0 Medium	50	10	2	5.20
F5527G	(A50)	X6D33	X5D18	X4D38	X3D74	50-1 Coarse	50	10	4 1/2	6.85

\*We do not break sleeves—Sleeves in a unit pkg.

## ALOXITE FINISHING PAPER

Used for general purpose finishing of wood and metal. 9x11 inches.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	7 to 14 Unit Pkgs.	15 Unit Pkgs.	Grit Size	Sheets Per Sleeve	*Sleeves in Unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5523G	(A220)	X5D52	X4D52	X3D82	X3D26	220-6/0 Ex. Fine	100	10	5	\$9.30
F5524G	(A180)	X5D52★	X4D52★	X3D82★	X3D26★	108-5/0 Fine	100	10	5	9.30

\*We do not break sleeves—Sleeves in a unit pkg.

STAR ★ DENOTES BEST SELLER

## COATED ABRASIVES PRODUCTION PAPER

3M

For wood and metal sanding and is very best for all-purpose abrasive. Open-coated with tough aluminum-oxide mineral.

9x11 inches

### FINISHING PAPER

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkgs.	6 to 14 Pkgs.	15 Unit Pkg.	Grit Size	Sleeve	Sheets per Sleeve	Sleeves in unit Pkgs.	Wt. Sleeve lbs.	▲Per Sleeve
F5459G	(M220A)	X5D52	X4D52	X3D82	X3D26	220/6/0	{ Ex. Fine "A" Wt.	100	10	5	\$9.30

### CABINET PAPER

F5460G	(M120C)	X8D59	X7D03	X5D94	X5D08	120-3/0	{ Fine "C" Wt.	100.	10	2½	9.30
F5461G	(M80D)	X4D81	X3D94	X3D82	X3D84	80-1/0	{ Medium "D" Wt.	50	10	3½	5.20
F5462G	(M50D)	X6D33	X5D18	X4D38	X3D74	50-1	{ Coarse "D" Wt.	50	10	4½	6.85
F5463G	(M36D)	X8D09	X6D62	X5D59	X4D78	36-2	{ Very Coarse "D" Wt.	50	10	6¼	8.75

We do not break Sleeves—Sleeves in unit Package →

## GARNET PAPER CARBORUNDUM

Garnet is a natural abrasive noted for its purity, hardness and sharpness. The crystal masses are crushed, rough grated and heat treated which results in a tougher grain that stands up longer.

### Finishing Paper—9x11-inch Sheets—Open Coat

Coated on a tough, flexible backing. For sanding stain coats, sealer coats, etc. Sufficiently flexible for sanding both flat and irregular surfaces.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkg.	6 to 14 Unit Pkg.	15 Unit Pkg.	Sheets per Sleeve	Sleeves in Unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5486G	(GF6/0/220)	X4D61	X3D77	X3D18	X2D72	100	10	5¼	\$9.30
F5485G	(GF5/0/180)	X4D61	X3D77	X3D18	X2D72	100	10	5¼	9.30
F5483G	(GF3/0/120)	X4D61★	X3D77★	X3D18★	X2D72★	100	10	3¼	9.30

We do not Break Sleeves—Sleeves in a Unit Package →

### Cabinet Paper—9x11-inch Sheets—Open Coat

For hand sanding operations on soft woods in the white. The open coating greatly reduces filling by wood dust and increases the life of the paper.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkg.	6 to 14 Unit Pkg.	15 Unit Pkg.	Sheets per Sleeve	Sleeves in Unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5481G	(GC0/80)	X4D18★	X3D42★	X2D89★	X2D47★	50	10	2	\$5.20

We do not Break Sleeves—Sleeves in a Unit Package →

### Cabinet Paper—9x11-inch Sheets—Closed Coated

For hand sanding hardwoods in the white. Full coating increases the efficiency on hardwoods where filling or loading is not a factor.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkg.	6 to 14 Unit Pkg.	15 Unit Pkg.	Sheets per Sleeve	Sleeves in Unit Pkg.	Wt. Sleeve, lbs.	▲Per Sleeve
F5479G	(GC1/50)	X5D50★	X4D50★	X3D80★	X3D25★	50	10	4½	\$6.85

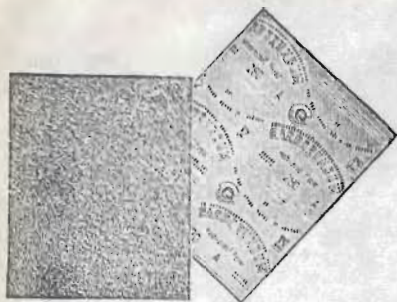
We do not Break Sleeves—Sleeves in a Unit Package →

NOTE—When Ordering Full Unit Packages Prefix "FX" Instead of "F"

STAR ★ DENOTES BEST SELLER

## COATED ABRASIVES

Industrial Coated Abrasive Products



## WATERPROOF SILICON CARBIDE PAPER

## CARBORUNDUM

9x11-inch Sheets

Waterproof paper produces uniformly smooth surfaces on all wet sanding operations. Used extensively on automobile bodies for rubbing down enamel undercoats.

Thoroughly waterproofed, will not mat or pulp.

Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkg.	6 to 14 Unit Pkg.	15 Unit Pkg.	Backing	Sheets per Sleeve	Sleeve per Unit	Wt. Sleeve, lbs.	▲Per Sleeve
F5533G (WA400)	X5D16	X4D22	X3D57	X3D05	A	50	10	2½	\$6.25	
F5532G (WA320)	X5D16★	X4D22★	X3D57★	X3D05★	A	50	10	3	6.25	
F5531G (WA280)	X5D16★	X4D22★	X3D57★	X3D05★	A	50	10	3	6.25	
F5529G (WA220)	X5D16	X4D22	X3D57	X3D05	C	50	10	4	6.25	
<del>F5528G (WA180)</del>	<del>X5D16</del>	<del>X4D22</del>	<del>X3D57</del>	<del>X3D05</del>	<del>C</del>	<del>50</del>	<del>10</del>	<del>4½</del>	<del>6.25</del>	

We do not Break Sleeves—Sleeves in a Unit Package

## WETORDRY TRI-M-ITE PAPER SHEETS

3M

For producing fine finishes. Produces satin smooth finishes on lacquer, varnish, enamel and synthetic coatings. Coated with silicon—carbide mineral which is almost as hard as a diamond.

9x11 Sheets



Per Sleeve		Less than Unit Pkg.	1 to 6 Unit Pkg.	6 to 14 Unit Pkgs.	15 Unit Pkg.	Grit	Backing	Sheets Per Sleeve	Sleeves Per Unit	Wt. Sleeve, lbs.	▲Per Sleeve
F5520G (WT400A)	X5D16	X4D22	X3D57	X3D05		Super Fine	A	50	10	1½	\$6.25
F5521G (WT320A)	X5D16	X4D22	X3D57	X3D05		Extra Fine	A	50	10	1¾	6.25
F5522G (WT220A)	X5D16	X4D22	X3D57	X3D05		Very Fine	A	50	10	2¼	6.25

We do not break Sleeves—Sleeves in a Unit Package.

## CARBORUNDUM—ECONOMY ROLLS

Made of electrocoated metal cloth widely used on all metal finishing operations. It is made by electro-coating aluminum oxide grain on a cloth backing.

The rolls are all 50 yards in length and come packed in individual cartons. This method of packing eliminates the necessity of tearing strips of metal cloth from regular size sheets. Operator simply selects the correct width and cuts off length he desires.

Electrocoated—Cloth Back—Open Coat—50-Yard Rolls



Per Roll		Less than Unit Pkg.	1 to 6 Unit Pkgs.	6 to 14 Unit Pkgs.	15 Unit Pkg.	Grit	Width, ins.	Rolls per Unit	Wt. Roll, lbs.	▲Per Roll
F5395G	(AR1201)	X5D24	X4D28	X3D62	X3D09	120	1	10	1½	\$ 5.80
F5389G	(AR301)	X5D41	X4D43	X3D74	X3D20	80	1	10	1½	6.00
F5396G	(AR1201½)	X7D30	X5D98	X5D05	X4D32	120	1½	10	2½	8.10
F5390G	(AR801½)	X7D58	X6D20	X5D24	X4D48	80	1½	10	2½	8.40
F5397G	(AR1202)	X9D30	X7D61	X6D42	X5D49	120	2	10	3	10.30
F5391G	(AR802)	X9D75	X7D97	X6D73	X5D76	80	2	10	3	10.80

Rolls per Unit

NOTE—When Ordering Full Unit Packages Prefix "FX" instead of "F"

STAR ★ DENOTES BEST SELLER

**COATED ABRASIVES**

Industrial Coated Abrasive Products

**SANDING BELTS**

Aluminum Oxide—Electro Coated

**CARBORUNDUM**

These belts are sturdily constructed for the various sanding jobs in the woodworking field. Strong, flexible cloth, covered with aluminum oxide, one of the best abrasives for general wood sanding.

**For Skil Zephyrplane Jr. and No. 525 Skil Home Shop Sanders.** Size  $21\frac{5}{16} \times 2\frac{1}{4}$  inches. Type KM splice.

Per Pkg.		Less than One Unit	1 to 6 Units	6 to 14 Units	14 Units	Grit Size	Belts per Pkg.	Belts per Unit	Weight Pkg., lbs.	▲ Per Pkg.
F5336G	(21-3/0-120)	X3D41★	X2D79★	X2D36★	X2D02★	3/0-120	10	50	$\frac{1}{2}$	\$ 6.08
F5337G	(21-0/80)	X3D50★	X2D86★	X2D42★	X2D07★	0/80	10	50	$\frac{5}{8}$	6.24
F5338G	(21-1/2-60)	X3D64	X2D98	X2D51	X2D15	$\frac{1}{2}$ -60	10	50	$1\frac{1}{16}$	6.48
F5334G	(21-1-50)	X3D73	X3D05	X2D57	X2D20	1-50	10	50	$\frac{3}{4}$	6.64
F5335G	(21-1 1/2-40)	X3D86	X3D16	X2D67	X2D28	$1\frac{1}{2}$ -40	10	50	$\frac{7}{8}$	6.88

Belts Per Unit

**For Skil Zephyrplane Sanders.** Size  $23\frac{3}{4} \times 3$  inches. Will fit  $24 \times 3$  inches.

F5341G	(23-3/0-120)	X3D86★	X3D16★	X2D67★	X2D28★	3/0-120	10	50	$1\frac{1}{16}$	6.88
F5342G	(23-0/80)	X3D95★	X3D23★	X2D73★	X2D34★	0/80	10	50	$\frac{3}{4}$	7.04
F5343G	(23-1/2-60)	X4D17★	X3D42★	X2D88★	X2D47★	$\frac{1}{2}$ -60	10	50	$1\frac{5}{16}$	7.44
F5339G	(23-1-50)	X4D31	X3D53	X2D98	X2D55	1-50	10	50	$1\frac{1}{8}$	7.68
F5340G	(23-1 1/2-40)	X4D49	X3D67	X3D10	X2D65	$1\frac{1}{2}$ -40	10	50	$1\frac{1}{4}$	8.00

**For Porter-Cable Nos. A3, G3, T3, B5 and T33.** Size  $24 \times 3$  inches.

F5490G	(24-3/0-120)	X3D86	X3D16	X2D67	X2D28	3/0-120	10	50	$1\frac{1}{16}$	6.88
F5491G	(24-0/80)	X3D95	X3D23	X2D73	X2D34	0/80	10	50	$\frac{3}{4}$	7.04
F5492G	(24-1/2-60)	X4D17	X3D42	X2D88	X2D47	$\frac{1}{2}$ -60	10	50	$1\frac{5}{16}$	7.44
F5493G	(24-1-50)	X4D31	X3D53	X2D98	X2D55	1-50	10	50	$1\frac{1}{8}$	7.68
F5494G	(24-1 1/2-40)	X4D49	X3D67	X3D10	X2D65	$1\frac{1}{2}$ -40	10	50	$1\frac{1}{4}$	8.00

Belts Per Unit

**For Skil Sanders Nos. 323 and 324.** Size  $26 \times 4\frac{1}{2}$  inches.

F5333G	(26-3/0-120)	X6D91	X5D66	X4D78	X4D09	3/0-120	10	50	$1\frac{3}{16}$	12.32
F5346G	(26-0/80)	X7D09	X5D80	X4D90	X4D19	0/80	10	50	$1\frac{1}{4}$	12.64
F5347G	(26-1/2-60)	X7D36	X6D02	X5D09	X4D35	$\frac{1}{2}$ -60	10	50	$1\frac{1}{2}$	13.12
F5344G	(26-1-50)	X7D59	X6D21	X5D24	X4D48	1-50	10	50	$1\frac{3}{4}$	13.52
F5345G	(26-1 1/2-40)	X7D85	X6D43	X5D43	X4D64	$1\frac{1}{2}$ -40	10	50	2	14.00

**For Porter-Cable Nos. B10 and BB10.** Size  $27 \times 3$  inches.

F5495G	(27-3/0-120)	X4D08	X3D34	X2D82	X2D41	3/0-120	10	50	$1\frac{3}{16}$	7.28
F5496G	(27-0/80)	X4D22	X3D45	X2D92	X2D49	0/80	10	50	$1\frac{1}{4}$	7.52
F5497G	(27-1/2-60)	X4D44	X3D64	X3D07	X2D63	$\frac{1}{2}$ -60	10	50	$1\frac{1}{2}$	7.92
F5498G	(27-1-50)	X4D62	X3D78	X3D20	X2D73	1-50	10	50	$1\frac{3}{4}$	8.24
F5499G	(27-1 1/2-40)	X4D80	X3D93	X3D32	X2D84	$1\frac{1}{2}$ -40	10	50	2	8.56

**We Do Not Break Packages—Belts Per Unit**

**Note—When Ordering Full Unit Packages Prefix "FX" Instead of "F"**

**STAR ★ DENOTES BEST SELLER**

## SANDING DISCS

## CARBORUNDUM



For No. HU50 Electric Sander and Polisher or Any 5 inch Rubber Pad.

Aloxite belt paper—E. C. Openkote. Diameter 5 inches, with  $\frac{1}{4}$  inch arbor hole.

Per Box		Less than One Unit	1 to 6 Units	6 to 14 Units	15 Units	Grit	Disc. in envelope	Envelopes per Box Min. Pkg.	Boxes per Unit Pkg.	Wt. per Box, lbs.	▲Per Box
F5330G	(D55F)	X5D29	X4D33	X3D66	X3D13	3/0-120	5	20	5	2	\$7.40
F5331G	(D55M)	X6D58	X5D38	X4D54	X3D89	0/80	5	20	5	2 $\frac{1}{4}$	9.20
F5328G	(D55C)	X9D01	X7D37	X6D22	X5D32	1/50	5	20	5	3 $\frac{1}{4}$	12.60

Boxes Per Unit

## Extra Coarse

## Silicon Carbide on Combination Backing

Per Box		Less than One Unit	1 to 6 Units	6 to 14 Units	15 Units	Disc in Envelope	Envelopes per Box Min. Pkg.	Boxes per Unit Pkg.	Wt. per Box, lbs.	▲Per Box
F5329G	(D55EC)	X10D73	X8D78	X7D41	X6D34	5	20	5	2 $\frac{1}{2}$	\$10.40

We Do Not Break Boxes—Boxes Per Unit

Note—When Ordering Full Unit Packages Prefix "FX" Instead of "F"



For use on portable electric sanding and polishing machines: Recommended for general sanding and particularly for body and fender work. Aluminum oxide, combination cloth and fibre back, close coat. Put up in a handy carton which keeps the discs flat, clean and safe from shelf wear

 $\frac{7}{8}$  inch Arbor Hole

Per Pkg.		Less than One Unit Pkg.	1 to 6 Units Pkg.	6 to 14 Units Pkg.	15 Units	Grit	Diam., ins.	Discs per Pkg.	Discs per Unit	Wt. Unit, lbs.	▲Per Pkg.
F5304G	(750)	X10D98	X8D98	X8D58	X6D49	50	7	25	100	10	\$14.68
F5305G	(780)	X9D82	X8D04	X6D78	X5D80	80	7	25	100	8	13.13

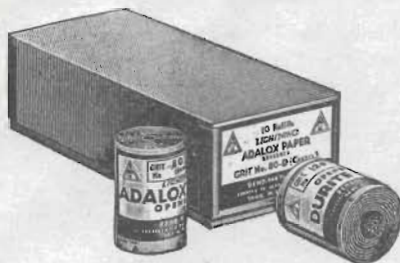
We do not Break Packages

Discs per Unit

## COATED ABRASIVES

## CARBORUNDUM

## Industrial Coated Abrasive Products



## REFILLS FOR BEHR-MANNING SANDER No. 122

In rolls about 7½ feet long. Width 2 inches. For sanding woodwork and finishing coats

## Lightning Adalox Paper—(Openkote Aluminum Oxide)

Per Box		Less than One Unit Pkg.	1 to 6 Units Pkg.	7 to 14 Units Pkg.	15 Unit Pkg.	Grit	Rolls per Box,	Boxes per Unit Pkg.	Wt. Box lbs.	▲Per Box
F5325G	(A12C)	X2D65★	X2D17★	X1D82★	X1D56★	Coarse	10	10	1	\$3.50

## Durite Paper—(Openkote Silicon Carbide)

F5327G	(A12M)	X2D65★	X2D17★	X1D82★	X1D56★	Medium	10	10	1	3.70
F5326G	(A12F)	X2D65★	X2D17★	X1D82★	X1D56★	Fine	10	10	1	3.70

We do not Break Boxes

Boxes in a Unit Package →

NOTE—When Ordering Full Unit Packages Prefix "FX" Instead of "F"



## PAPER PRODUCTION REFILL ROLLS

3M

For wood or metal sanding. Made with aluminum-oxide mineral coating. Fits Sander No. 122.

Per Box		Less than Unit Pkg.	1 to 6 Unit Pkg.	7 to 14 Unit Pkg.	15 Unit Pkg.	Grit	Rolls Per Box	Boxes Per Unit	Wt. Box, lbs.	▲Per Box
F5369G	(RRF)	X2D65	X2D17	X1D82	X1D56	Fine	10	10	1	\$3.70
F5370G	(RRM)	X2D65	X2D17	X1D82	X1D56	Medium	10	10	1	3.70
F5371G	(RRC)	X2D65	X2D17	X1D82	X1D56	Coarse	10	10	1	3.70

We do not break Boxes—Boxes in a unit Package →

## SANDING BLOCKS

## BEHR-CAT



For hand sanding wood, metal, plastic, plaster and refinishing automobiles and furniture.

Solid block of resilient rubber designed to use standard 2¼x9 inch sand paper.

Size 1⅝x2¾x5 inches.

Six blocks in a colorful counter display with sheet of sand paper.

Per Display	Each
F5384G (34) X5D96.....	\$1.49

One display in ctn. Wt. ctn. 6 lbs.



For wet or dry sanding. Pliable rubber for sanding both flat and curved surfaces.

2¼ inches wide for sanding large areas.

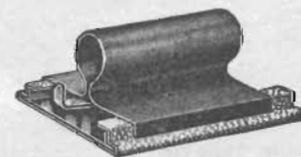
## Display of 6

Per Display	Each
(6)	
F5381G (275B) X5D96.....	\$1.49

One display in ctn. Wt. ctn. 3 lbs.

## SANDPAPER HOLDERS

## RED DEVIL



All steel, with cam lever locking device. Holds paper tight. A slight bulge in bottom can be obtained by regulation of the cam lever. Especially designed for household package sheets 5x4½ inches. Also holds ¼-sheets of standard sizes. Bottom, cadmium finished. Handle, bright red enameled.

## Without Rubber Pad

Each	▲ Each
F5410G (9) D3C3★.....	\$0.55
Wt. each ½ lb.	

## With Sponge Rubber Pad

Each	▲ Each
F5411G (9A) D3C9.....	\$0.65
Twelve in display box. Wt. box 8 lbs.	

SPEED-GRITS SANDERS  
BEHR MANNING



Easy to use—fits the hand and reduces sanding fatigue. Continuous sanding strip held by positive locking device assures smooth, continuous sanding service.

The magazine holds a reserve supply or roll of abrasive paper or cloth. When sanding surface is used up, it is a simple matter to unfasten clamp and pull a fresh sanding surface in position, tearing off the worn-out end.

Smooth plastic, nicely finished in assorted colors, red, black, blue, yellow and green. Soft flexible pad on bottom. Cadmium plated steel sandpaper holder and magazine cover at front and steel wire clamp at back. Complete with instructions.

Size—7 ins. long, 2 ins. wide, 2 3/4 ins. high.

Each		▲ Each
F5382G	(12) X1D25★	\$1.39
5 or more	D9C0★	

Wt. box 1 lb.

Five assorted colors in display box

STEEL SANDPAPER  
RED DEVIL



Dragon Skin Display Assortment

Includes six full size (9x11 inch) and six 1/2 sheet size (3 3/4 x 9 inch sander size) Dragon Skin steel sandpaper in counter merchandiser. Each sheet individually packaged.

Per Asst.		Per Asst.
F5489G	(A22) X5D40	\$9.00

One asst. in display box. Wt. box 3 3/4 lbs.

OPEN STOCK  
For Oscillating Sanders  
1/2 sheet size (3 3/4 x 9 ins.)

Per Box		Each
F5488G	(DS4) X3D60	\$0.50

Twelve in display box. Wt. box 2 1/2 lbs.

Economy Sheets  
Full size 9 x 11 inches.

Per Box		Each
F5477G	(DS7) X7D20	\$1.00

Twelve in display box. Wt. box 4 lbs.

SANDPAPER HOLDERS  
RED DEVIL



For Use with Dragon-Skin Steel Sandpaper

All steel holder for 4 1/4 x 5 inch sheets. Sheet snaps into holder and is held tight. Each holder complete with one sheet of Dragon-Skin sandpaper.

Each		Each
F5402G	(9S) D4C5	\$0.75

Twelve in display ctn.  
Wt. ctn. 6 lbs.

STEEL SANDPAPER  
RED DEVIL  
Dragon Skin

Sands, rasps, shapes hard and soft woods, plastics and soft metals. Cuts rapidly and easily with less scratching. Perforated steel sheets (150 holes per square inch)—Will not clog. Used on holder, dowel, wood block or in bare hands.

4 1/4 x 5 inch sheets—Individually boxed.

For 9S Sandpaper Holders

Each		Each
F5412G	(DS1) D1C5	\$0.25

Twelve in ctn. Wt. ctn. 1 1/2 lbs.

STEEL WOOL

NOTE:

- No. 00—Equal to crocus cloth or used in place of rotten stone.
- No. 0—Used in place of very fine sandpaper or pumice.
- No. 1—Used in place of No. 0 sandpaper.
- No. 2—Used in place of No. 1/2 sandpaper.
- No. 3—Used in place of No. 1 to 1 1/2 sandpaper.



1 Pound Packages

Size of Package 16x4 inches

Per Pkg.		Size No.	Per Pkg.
F15G	(100) D5C6★	00	\$0.85
FX15G	(100) D5C6★	(Case lots 12 pkgs.)	
F8G	(10) D4C5★	0	.70
FX8G	(10) D4C5★	(Case lots 12 pkgs.)	
F9G	(11) D4C5	1	.70
FX9G	(11) D4C5	(Case lots 12 pkgs.)	
F10G	(12) D4C4	2	.65
FX10G	(12) D4C4	(Case lots 12 pkgs.)	
F12G	(13) D4C4	3	.65
FX12G	(13) D4C4	(Case lots 12 pkgs.)	

Twelve pkgs. in ctn. Wt. ctn. 14 1/4 lbs.



Industrial Pads

The convenient form. Layer built construction.

Sixteen large industrial size, compressed pads. For printers, wood finishers, institutions, hotel and restaurant kitchens and all industrial trade.

Per Pkg.		Size No.	Per Pkg.
F22G	(16000) D7C2	000	\$1.10
FX22G	(16000) D7C2	(Case lots 12 pkgs.)	
F21G	(1600) D5C6★	00	.85
FX21G	(1600) D5C6★	(Case lots 12 pkgs.)	
F16G	(160) D4C5★	0	.70
FX16G	(160) D4C5★	(Case lots 12 pkgs.)	
F17G	(161) D4C5★	1	.70
FX17G	(161) D4C5★	(Case lots 12 pkgs.)	
F18G	(162) D4C4★	2	.65
FX18G	(162) D4C4★	(Case lots 12 pkgs.)	
F19G	(163) D4C4	3	.65
FX19G	(163) D4C4	(Case lots 12 pkgs.)	



A newly designed cellophane window package in attractive colors, containing 6 large scouring pads of the most efficient aluminum cleaner and polisher. Surprisingly soft and easy on the hands.

Household Size

Per Box		Equal to Sandpaper,	Grade	Size	Per Box
F11G	(12F) D1C2★	Fine	0		\$0.20
FX11G	(12F) D1C2★	(Case lots 24)			

Twenty-four boxes in case. Wt. case 10 lbs.

Twelve pkgs. in shipping ctn.. Wt. ctn. 9 lbs.

## GENERAL DESCRIPTION OF FILES AND RASPS

### FILES AND RASPS ARE CLASSIFIED BY THREE FEATURES

1st, Their Kind or Name. 2nd, Their Cut. 3rd, Their Length.

**The Kind**—By kind, is meant the varied shapes or styles which are distinguished by certain names, as flat, mill, half round, etc. First, the kinds are divided, according to the form of their cross sections, into three classes, namely: quadrangular, circular and triangular.

**Taper**—Designates a file, the point of which is more or less reduced in size (both width and thickness) by gradually narrowing section extending from one-half to two-thirds the length of the file from the point.

**Blunt**—Designates a file that preserves its sectional shape throughout from point to tang.

**The Cut**—Is divided, with reference to the character of the teeth, into single cut, double cut and rasp cut, and with reference to the coarseness of the teeth, into bastard, second cut, and smooth. (See illustrations below.) Regarding the latter we may say that the bastard cuts are used upon the coarser, heavier classes of work, while the second cut and smooth are used for the finer grades and for finishing the work started by the bastard.

**The Single Cut File**—Is one in which a single, unbroken course of chisel-cuts is made across its surface, parallel to each other.

**The Double Cut File**—Has two courses of chisel-cuts crossing each other.

**Rasp Cut**—Differs from single or double cut in the respect that the teeth are disconnected from each other, each tooth being made by a single pointed tool, called a punch.

**The Length**—Is the distance between its heel and the point or opposite end. The tang or portion of the file prepared for the reception of the handle is never included in the length.

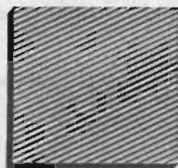
### TERMS COMMONLY USED TO DESCRIBE FILES

**Back**—A term commonly used to describe the convex side of half-rounds, cabinets, pit saw and other files of similar cross-sectional shape.

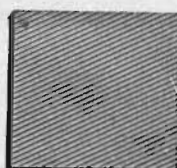
**Bellied**—A term sometimes used to describe a file having a fullness in the center.

**Safe Edge (or Side)**—Terms used to denote that a file has one or more of its edges or sides smooth or uncut, that it may be presented to the work without injury to that portion which does not require to be filed.

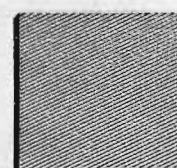
### ILLUSTRATIONS SHOWING CUT OF FILES AND RASPS



Bastard



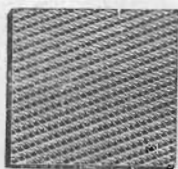
Second Cut



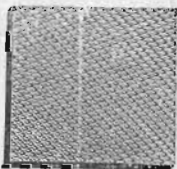
Smooth

#### SINGLE CUT

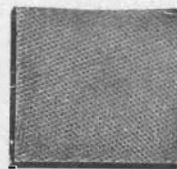
**Single Cut Files**—Have a single unbroken course of chisel-cuts across the surface parallel to each other, but oblique to the sides. Particularly adapted to saw filing. Used on lathe work by machinists. Also used by woodworkers, carriage builders, etc.



Bastard



Second Cut



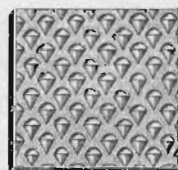
Smooth

#### DOUBLE CUT

**Double Cut Files**—Have two courses of chisel-cuts crossing each other, the second course, with rare exceptions, being finer than the first. Especially adapted for use in machine shops, locomotive works, foundries and for similar classes of work.



Bastard



Second Cut



Smooth










#### RASP CUT

**Rasp Cut Files** or rasps have teeth which are disconnected from each other, each tooth being made by a punch. Used by blacksmiths, horse-shoers, plumbers, cabinet makers, woodworkers, etc.







## SECTIONAL VIEW OF DIFFERENT SIZE FILES

### AND TABLE OF DIMENSIONS

On the table below will be found the approximate widths and thicknesses of various kinds and sizes of files and rasps in general use. Figures indicating the length appear opposite each item, and the required width and thickness can be secured by simply ordering in the length and kind shown on this page.

Length																Length
	MILL		FLAT		HAND		PILLAR		SQ.	3 SQ.	RD.	HALF RD. FILES WOOD RASPS WOOD FILES		CABINET RASPS AND FILES		
Inches	Wide	Thick	Wide	Thick	Wide	Thick	Wide	Thick	Wide	Wide	Diam.	Wide	Thick	Wide	Thick	Inches
3	$2\frac{1}{64}$	$\frac{1}{16}$	.....	.....	.....	.....	.....	.....	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$\frac{7}{16}$	$\frac{1}{8}$	.....	.....	3
4	$\frac{7}{16}$	$\frac{9}{64}$	$\frac{7}{16}$	$\frac{7}{64}$	$\frac{17}{32}$	$\frac{9}{64}$	.....	.....	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$\frac{7}{16}$	$\frac{1}{8}$	.....	.....	4
5	$\frac{1}{2}$	$\frac{3}{32}$	$\frac{17}{32}$	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{5}{32}$	.....	.....	$\frac{3}{16}$	$\frac{7}{16}$	$\frac{3}{16}$	$\frac{17}{32}$	$\frac{5}{32}$	.....	.....	5
6	$\frac{5}{8}$	$\frac{7}{64}$	$\frac{5}{8}$	$\frac{5}{32}$	$\frac{23}{32}$	$\frac{3}{16}$	$\frac{7}{16}$	$\frac{7}{32}$	$\frac{7}{32}$	$\frac{1}{2}$	$\frac{7}{32}$	$\frac{5}{8}$	$\frac{11}{64}$	$\frac{11}{16}$	$\frac{3}{16}$	6
7	$\frac{11}{16}$	$\frac{1}{8}$	$\frac{23}{32}$	$\frac{3}{16}$	$\frac{13}{16}$	$\frac{13}{64}$	.....	.....	$\frac{1}{4}$	$\frac{9}{16}$	$\frac{1}{4}$	$\frac{23}{32}$	$\frac{13}{64}$	.....	.....	7
8	$\frac{13}{16}$	$\frac{5}{32}$	$\frac{13}{16}$	$\frac{13}{64}$	$\frac{29}{32}$	$\frac{15}{64}$	$\frac{9}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{19}{32}$	$\frac{5}{16}$	$\frac{13}{16}$	$\frac{15}{64}$	$\frac{7}{8}$	$\frac{1}{4}$	8
9	$\frac{29}{32}$	$\frac{11}{64}$	$\frac{29}{32}$	$\frac{7}{32}$	1	$\frac{1}{4}$	.....	.....	.....	$\frac{21}{32}$	$\frac{11}{32}$	.....	.....	.....	.....	9
10	1	$\frac{3}{16}$	1	$\frac{1}{4}$	1 $\frac{3}{32}$	$\frac{9}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{23}{32}$	$\frac{3}{8}$	1	$\frac{9}{32}$	1 $\frac{1}{8}$	$\frac{9}{32}$	10
12	1 $\frac{3}{16}$	$\frac{7}{32}$	1 $\frac{3}{16}$	$\frac{19}{64}$	1 $\frac{17}{64}$	$\frac{5}{16}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{1}{2}$	$\frac{27}{32}$	$\frac{1}{2}$	1 $\frac{3}{16}$	$\frac{11}{32}$	1 $\frac{5}{16}$	$\frac{11}{32}$	12
14	1 $\frac{11}{32}$	$\frac{1}{4}$	1 $\frac{23}{64}$	$\frac{11}{32}$	1 $\frac{7}{16}$	$\frac{11}{32}$	$\frac{15}{16}$	$\frac{15}{32}$	$\frac{5}{8}$	1	$\frac{5}{8}$	1 $\frac{13}{32}$	$\frac{13}{32}$	1 $\frac{17}{32}$	$\frac{3}{8}$	14
16	1 $\frac{17}{32}$	$\frac{9}{32}$	1 $\frac{17}{32}$	$\frac{25}{64}$	1 $\frac{5}{8}$	$\frac{13}{32}$	1 $\frac{1}{2}$	$\frac{17}{32}$	$\frac{3}{4}$	1 $\frac{3}{32}$	$\frac{3}{4}$	1 $\frac{19}{32}$	$\frac{15}{32}$	.....	.....	16
18	1 $\frac{23}{32}$	$\frac{21}{64}$	1 $\frac{43}{64}$	$\frac{27}{64}$	1 $\frac{13}{16}$	$\frac{29}{64}$	.....	.....	$\frac{7}{8}$	1 $\frac{3}{16}$	$\frac{7}{8}$	1 $\frac{3}{4}$	$\frac{1}{2}$	.....	.....	18

Length															Length
	SAW FILES				CANT SAW		PIT SAW		CROSS CUT SAW		KNIFE		WARDING		
Inches	Taper	Slim Taper	Extra Slim Taper	Double Extra Slim Taper	Wide	Thick	Wide	Thick	Wide	Thick	Wide	Thick	Wide	Thick	Inches
3	$\frac{7}{32}$	$\frac{5}{32}$	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
3 1/2	$\frac{9}{32}$	$\frac{3}{16}$	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3 1/2
4	$\frac{11}{32}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{5}{32}$	.....	.....	$\frac{5}{16}$	$\frac{5}{32}$	.....	.....	$\frac{15}{32}$	$\frac{3}{32}$	$\frac{15}{32}$	$\frac{3}{64}$	4
4 1/2	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{11}{64}$	.....	.....	$\frac{11}{32}$	$\frac{11}{64}$	.....	.....	.....	.....	.....	.....	4 1/2
5	$\frac{13}{32}$	$\frac{9}{32}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{15}{32}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	.....	.....	$\frac{37}{64}$	$\frac{7}{64}$	$\frac{35}{64}$	$\frac{1}{16}$	5
5 1/2	$\frac{7}{16}$	$\frac{9}{32}$	$\frac{1}{4}$	$\frac{3}{16}$	.....	.....	$\frac{13}{32}$	$\frac{13}{64}$	.....	.....	.....	.....	.....	.....	5 1/2
6	$\frac{15}{32}$	$\frac{11}{32}$	$\frac{9}{32}$	$\frac{7}{32}$	$\frac{17}{32}$	$\frac{13}{64}$	$\frac{7}{16}$	$\frac{7}{32}$	$\frac{9}{16}$	$\frac{15}{64}$	$\frac{11}{16}$	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{5}{64}$	6
7	$\frac{17}{32}$	$\frac{13}{32}$	$\frac{11}{32}$	$\frac{1}{4}$	$\frac{19}{32}$	$\frac{7}{32}$	$\frac{1}{2}$	$\frac{1}{4}$	.....	.....	.....	.....	.....	.....	7
8	$\frac{19}{32}$	$\frac{15}{32}$	$\frac{13}{32}$	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{17}{64}$	$\frac{17}{32}$	$\frac{17}{64}$	$\frac{11}{16}$	$\frac{9}{32}$	$\frac{7}{8}$	$\frac{11}{64}$	$\frac{51}{64}$	$\frac{7}{64}$	8
9	.....	.....	.....	.....	.....	.....	.....	.....	$\frac{3}{4}$	$\frac{21}{64}$	.....	.....	.....	.....	9
10	$\frac{23}{32}$	$\frac{19}{32}$	.....	.....	$\frac{13}{16}$	$\frac{5}{16}$	.....	.....	$\frac{13}{16}$	$\frac{23}{64}$	1 $\frac{1}{16}$	$\frac{1}{4}$	$\frac{31}{32}$	$\frac{1}{8}$	10
12	$\frac{27}{32}$	$\frac{23}{32}$	.....	.....	1	$\frac{3}{8}$	.....	.....	1	$\frac{7}{16}$	1 $\frac{1}{4}$	$\frac{17}{64}$	.....	.....	12

The size, kind and cut of the file required should be specified in ordering; viz. 10" Mill Bastard.

Type or kind refers to the shape of the file; viz. Square, Round, Mill, Flat, Hand, etc.

The cut of files is divided with reference to coarseness into Bastard, Second Cut and Smooth, as the cuts commonly specified. Files are single cut or double cut. The single cut file is one in which a single, unbroken course of chisel-cuts is made across its surface, arranged parallel to each other. The double cut file has two courses of chisel-cuts crossing each other.

The length or size of a file is the distance between its heel (or the part of the file where the tang begins) and the point or opposite end. The tang or portion of the file prepared for the reception of the handle is never included in the length.

**4-206-B**

12-18-57

**SHAPLEIGH HARDWARE COMPANY, ST. LOUIS**

## **AMERICAN FILE MERCHANTS ASSORTMENT**

Per Assortment

Per Assortment

**O-24-G**

**X7D39** ..... \$11.70

Eight assortments in ctn. Wt. ctn. 7 lbs.

# AMERICAN FILE MERCHANDISER #24

## ALL METAL RACK FREE!

- AS A COUNTER DISPLAY
- AS A WALL RACK
- SWIVELS ON EITHER SIDE

## ● CHECK THESE FEATURES!

- Made in U.S.A.
- High carbon, finest quality steel.
- Precision hardening for long life.
- Open stock available and carded.
- 8 popular items (two dozen files).

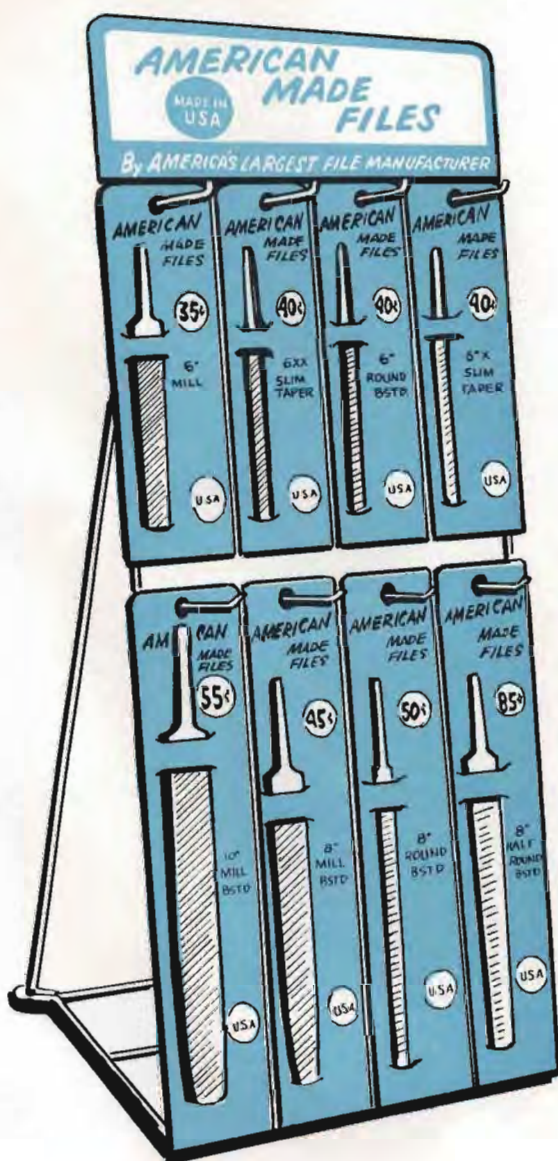
RETAILER'S COST \$ 7.39

RETAILER'S SELLING PRICE 11.70

PROFIT \$4.31

### ASSORTMENT CONSISTS OF:

Qty.	Cat. No.	Type	Size	Ret. List Ea.
3	24-6"	Mill Bastard	6"	35¢
3	24-8"	Mill Bastard	8"	45¢
3	24-10"	Mill Bastard	10"	55¢
3	25-6"	Round Bastard	6"	40¢
3	25-8"	Round Bastard	8"	50¢
3	26-6"	X Slim Taper	6"	40¢
3	27-6"	XX Slim Taper	6"	40¢
3	28-8"	Half Rd. Bstd.	8"	85¢



Dimension 10" wide, 26" high

- IMPULSE SALES BUILDER!

# OPEN STOCK FILES

**For No. 24 – American File Merchandiser**

CATALOG NO.	TYPE	SIZE	PACK	WEIGHT PER DZ.	RETAIL LIST PRICE	RETAILER COST PER DOZEN
24-6''	Mill Bastard	6''	1/2 Dozen to Box	1 lb. 9 ozs.	35¢	\$2.73
24-8''	Mill Bastard	8''	1/2 Dozen to Box	3 lbs. 6 ozs.	45¢	3.20
24-10''	Mill Bastard	10''	1/2 Dozen to Box	5 lbs. 11 ozs.	55¢	4.20
25-6''	Round Bastard	6''	1/2 Dozen to Box	1 lb. 2 ozs.	40¢	3.20
25-8''	Round Bastard	8''	1/2 Dozen to Box	2 lbs. 3 ozs.	50¢	3.87
26-6''	Xtra Slim Taper	6''	1/2 Dozen to Box	1 lb. 1 oz.	40¢	2.87
27-6''	Dbl. Xtra Slim Taper	6''	1/2 Dozen to Box	13 ozs.	40¢	2.87
28-8''	Half Round Bstd.	8''	1/2 Dozen to Box	3 lbs. 9 ozs.	85¢	6.60

**INDIVIDUALLY CARDED AND PRICED  
— RE-ORDER BY NUMBER —**

**#24 ASS'T. WEIGHT . . . 7<sup>3</sup>/<sub>4</sub> LBS.**

**INDIVIDUALLY PACKED IN SHIPPING CARTON  
EIGHT PACKED TO MASTER CARTON**

## MILL BASTARD FILES

Each	Size, in.	Each
F6640G	D2C3	\$0.35
F6641G	D2C7	.45
F6643G	D3C5	.55

## ROUND BASTARD FILES

F6644G	D2C7	.40
F6645G	D3C2	.50

## XTRA SLIM TAPER FILES

F6646G	D2C4	.40
--------	------	-----

## DOUBLE EXTRA SLIM TAPER FILES

F6647G	D2C4	.40
--------	------	-----

## HALF ROUND BASTARD

F6648G	D5C5	.85
--------	------	-----

*Sold Only In Full Boxes*

**DIRECT SHIPMENT****NICHOLSON, BLACK DIAMOND AND KLICHER FILES  
FOR WHOLESALE GROCERY JOBBERS ONLY**

On Nicholson and Black Diamond files, you may use a discount of D1C0% from Catalog Prices. When sold in lots of 150 lbs. or more you may allow full freight to destination. Less than 150 lbs. is F. O. B., Providence, R. I.

On Klicher files you may use the prices listed below. When sold for shipment direct from factory in lots of 150 lbs. or more you may allow full freight to destination. Less than 150 lbs. is F. O. B., Anderson, Ind.

**NOTE—No More KLICHER Files Available Until Further Notice**

**MILL BASTARD FILES**

Each		Size, inches
†M6K-G	D-S D2C1 .....	6
†M8K-G	D-S D2C4 .....	8
†M10K-G	D-S D3C2 .....	10
†M12K-G	D-S D4C3 .....	12

**SLIM TAPER FILES**

Each		Size, inches
†ST5K-G	D-S D1C8 .....	5
†ST6K-G	D-S D2C3 .....	6

**EXTRA SLIM TAPER FILES**

Each		Size, inches
†EST6K-G	D-S D2C3 .....	6

**DOUBLE EXTRA SLIM FILES**

Each		Size, inches
†DST5K-G	D-S D1C8 .....	5
†DST6K-G	D-S D2C3 .....	6

The above applies to **LEGITIMATE WHOLESALE GROCERY JOBBERS ONLY**. Be very careful to sell in exact accordance with these instructions for we cannot, under any circumstances, allow these special prices to other accounts.

## FILES

### KLICKER

Mill Run Quality Files

Recommended for Farmers, Home Workshops, Household and Amateur Mechanics. Made from Steel Properly Hardened and Tempered (No Re-Cuts) Some Show Slight Imperfections.

NOT GUARANTEED

### MILL BASTARD FILES



Both Edges Square, Single Cut, Tapered Sides

Each			Length, ins.	No. in box	Wt. Box, lbs.	Each
F6651G	(M6K)	D2C3	6	12	1 1/4	\$0.35
F6652G	(M8K)	D2C7★	8	12	2 1/4	.40
F6653G	(M10K)	D3C5★	10	12	5 1/4	.55
F6654G	(M12K)	D4C8	12	6	4 1/2	.75

6 to 10-inch, twelve. 12 and 14-inch, six in cardboard box

### SLIM TAPER FILES



#### Single Cut

For filing panel, hack, butcher, scroll and other fine-tooth, thin edge saws.

Each			Length, inches	Wt. Box, lbs.	Each
F6659G	(ST5K)	D2C0	5	5/8	\$0.30
F6660G	(ST6K)	D2C5★	6	1 1/8	.40

Twelve in cardboard box

### EXTRA SLIM TAPER FILES



#### Single Cut

For filing panel, hack, butcher, scroll and other fine-tooth, thin edge saws.

Each			Length, inches	Wt. Box, lbs.	Each
F6642G	(EST6K)	D2C5★	6	7/8	\$0.40

Twelve in cardboard box

### DOUBLE EXTRA SLIM TAPER FILES



For filing the very finest tooth saws.

Each			Length, inches	Wt. Box, lbs.	Each
F6637G	(DST5K)	D2C0	5	5/16	\$0.30
F6638G	(DST6K)	D2C5★	6	1/2	.40

Twelve in cardboard box

### HORSE RASPS



Plain (One-half File Regular)

Each			Length, inches	Width, inches	Weight Box, lbs.	Each
F6668G	(P12K)	D7C5★	12	1 1/4	7 1/4	\$1.15
F6669G	(P14K)	X1D00★	14	1 1/2	9 3/8	1.50
F6670G	(P16K)	X1D35	16	1 3/4	13 1/16	2.00

Six in cardboard box

ALL NUMBERS—SOLD ONLY IN FULL BOXES

F. O. B. St. Louis—Subject to Prior Sale

STAR ★ DENOTES BEST SELLER

## CHAIN SAW FILES

### NICHOLSON

Developed for fast cutting, long life and good finish. Correct combination of tooth structure, shear angle and fineness of cut.



#### Round Type—Blunt

Each			Length, inches	Diameter, inches	Weight Box, lbs.	Each
F6630G	(183)	D6C7	8	3/16	1 1/8	\$1.00
F6701G	(184)	D6C7★	8	1/4	1 1/2	1.00
F6702G	(185)	D7C1	8	3/16	2 3/8	1.05
F6703G	(186)	D7C6	8	3/8	3	1.15
F6686G	(1835)	D6C7	8	7/32	1 1/8	1.00
F6699G	(189)	D6C9	8	9/32	1 1/8	1.00

Twelve in box



#### Flat Type—Two Round Edges

Length 8 inches. Cutting edges 1 1/16 x 5/16 inch.

Each			Each
F6700G	(18)	D7C0★	\$1.00

Twelve in box. Wt. box 3 lbs.

## WATER OR PULP SAW FILES

### NICHOLSON



Specially designed for correct filing of cutting teeth of Sandvik pulp saws.

Special analysis steel. Will last longer, cut faster and leaves an exceptionally smooth surface on the saw teeth.

#### Double Feather Edge

Length 6 inches

Each			Each
F6795G	(NW6)	D7C6	\$1.05

Twelve in box. Wt. box 3 lbs.

## HANDY FILES

### NICHOLSON



For sharpening all sorts of edged tools. Also good for odd jobs where a smooth finish is required

High grade steel. Single cut on one side and double on the other. One safe edge and the other is cut for use in filing slots, etc. Round point. Rounded yellow handle with hole for hanging.

Length of cutting edge 8 inches. Width 1 inch. Over all length 11 1/2 inches

Each			Each
F6715G	(NH8)	D6C9★	\$1.00

Twelve in box. Wt. box 6 lbs.

## ROTARY MOWER FILE DISPLAY NICHOLSON



Smooth, double-cut file for keen bite on tough steel rotary mower blades. Blue safety handle. Individual sturdy plastic case—file and case have handy hang-up hole. Twelve files on display—for counter or peg board.

Per Display  
F6658G X7D84.....\$11.76  
One display in ctn. Wt. ctn. 6 lbs.

## HAND FILE ASSORTMENT FULLER



### Bucket of Files with Handles

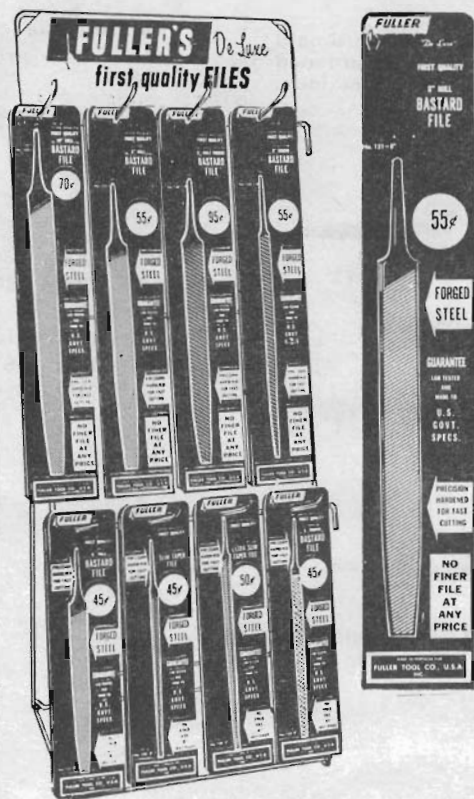
Assortment of 24 files in bucket type counter display. First quality forged steel files with comfort grip handles, nickel-plated ferrules and sharp clean teeth.

#### Contents:

Qty.	Size, in.	Type
8	8	Mill Bastard
6	6	Mill Bastard
6	7	Extra Slim Taper
4	8	Round Bastard

Per Asst.  
61-5-G X8D80.....\$13.20  
One asst. in ctn. Wt. ctn. 6 lbs.

## HAND FILES FULLER



### DeLuxe

#### Made in Portugal

High carbon, hot-forged, special analysis steel files precision hardened—made to U. S. Government specifications. Individually carded.

#### Assortment

3 each of the eight types and sizes of files, listed open stock below, on free metal counter rack that also hangs on wall or pegboard, or swivels over shelf.

Per Asst.  
FX-150-G X8D70.....\$13.80

One asst. in ctn. Wt. ctn. 7 lbs.

## OPEN STOCK

Each			Size, ins.	Wt. Box, lbs.	Each
<b>Mill Bastard</b>					
F6925G	(151)	D2C8	6	1¼	\$0.45
F6926G	(151)	D3C5	8	2	.55
F6930G	(151)	D4C4	10	3½	.70
<b>Round</b>					
F6931G	(155)	D2C8	6	¾	.45
F6932G	(155)	D3C5	8	1¼	.55
<b>Extra Slim Taper</b>					
F6933G	(158)	D2C8	6	¾	.45
<b>Double Extra Slim Taper</b>					
F6934G	(159)	D3C2	7	¾	.50
<b>½-inch Round Bastard</b>					
F6935G	(160)	D6C0	8	2½	.95
Six in box					

## SAW FILES

Triangular saw files are made for filing all types of handsaws with 60° angle teeth. Edges are set and cut for filing gullet between saw teeth.

## Regular Taper



Single Cut: For filing hand and buck saws

KEEN KUTTER Each		NICHOLSON Each		Length inches	App. Width, inches	Wt. Box, lbs.	Each
F6610GK	D3C7★ (KRT6)	F6775G	D4C1★ (NRT6)	6	15/32	2	\$0.60
F6611GK	D4C7★ (KRT7)	F6776G	D5C2★ (NRT7)	7	17/32	3 1/8	.80
F6612GK	D4C9★ (KRT8)	F6777G	D6C5★ (NRT8)	8	19/32	4 1/4	1.00

Twelve in a cardboard box

## Slim Taper



Single Cut: This file has largely superseded the regular taper file, owing to its greater sweep or stroke

KEEN KUTTER Each		NICHOLSON Each		Length inches	App. Width, inches	Wt. Box, lbs.	Each
.....		F6786G	D2C6 (NST4)	4	1/2	3/8	\$0.40
F6621GK	D2C5★ (KST5)	F6788G	D2C8★ (NST5)	5	9/32	5/8	.45
F6622GK	D3C3★ (KST6)	F6789G	D3C6★ (NST6)	6	11/32	1	.55
F6623GK	D3C9★ (KST7)	F6790G	D4C3★ (NST7)	7	11/32	1 3/4	.65
F6624GK	D4C7 (KST8)	F6791G	D5C2 (NST8)	8	15/32	2 3/4	.80
.....		F6792G	D7C3 (NST10)	10	19/32	4 7/8	1.10

Twelve in cardboard box

## Extra Slim Taper



Single Cut: Especially intended for filing panel, hack, butchers, scroll and other fine tooth, thin edge saws

KEEN KUTTER Each		NICHOLSON Each		Length inches	App. Width, inches	Wt. Box, lbs.	Each
.....		F6685G	D2C6 (NEST4)	4	9/32	1/4	\$0.40
F6643GK	D2C5 (KEST5)	F6687G	D2C8 (NEST5)	5	1/2	1/2	.45
F6644GK	D3C1 (KEST5 1/2)	F6688G	D3C4 (NEST5 1/2)	5 1/2	9/32	5/8	.50
F6645GK	D3C3★ (KEST6)	F6689G	D3C6★ (NEST6)	6	9/32	3/4	.55
F6646GK	D4C0★ (KEST7)	F6690G	D4C3★ (NEST7)	7	11/32	1 1/8	.65
F6647GK	D4C8 (KEST8)	F6691G	D5C2 (NEST8)	8	13/32	2	.80

Twelve in cardboard box

STAR ★ DENOTES BEST SELLER  
ALL NUMBERS—SOLD ONLY IN FULL BOXES

## SAW FILES

Triangular saw files are made for filing all types of handsaws with 80 degree angle teeth. Edges are set and cut for filing gullets between saw teeth.

## Double Extra Slim Taper

## Single Cut



For filing the very finest tooth saws. Preferred over regular tapers on account of a greater sweep or stroke obtained from the thickness of the blank or body.

KEEN KUTTER			NICHOLSON			BLACK DIAMOND			Length	App.	Wt.	
Each			Each			Each			inches	Width, inches	Box, lbs.	Each
F6532GK	D2C4	(KCSS4)	F6679G	D2C6	(NDST4)	.....			4	$\frac{3}{16}$	$\frac{3}{16}$	\$0.40
F6534GK	D2C6★	(KCSS5)	F6681G	D2C8★	(NDST5)	F6478G	D2C8★	(BDDST5)	5	$\frac{3}{16}$	$\frac{5}{16}$	.45
F6535GK	D3C3★	(KCSS6)	F6682G	D3C6★	(NDST6)	F6479G	D3C6★	(BDDST6)	6	$\frac{7}{16}$	$\frac{1}{2}$	-.55
F6536GK	D3C9★	(KCSS7)	F6683G	D4C3★	(NDST7)	F6480G	D4C3★	(BDDST7)	7	$\frac{1}{4}$	$\frac{5}{8}$	.65
F6537GK	D4C7	(KCSS8)	F6684G	D5C2	(NDST8)	F6481G	D5C2	(BDDST8)	8	$\frac{5}{16}$	1	.80

Twelve in cardboard box

## Bandsaw Slim Blunt

## Single Cut—Parallel Section



Especially designed for sharpening bandsaws with well rounded gullet between the saw teeth

KEEN KUTTER Each			Length inches	App. Width, inches	Wt. Box, lbs.	Each
F6632GK	D4C3★	(KBS6)	6	$\frac{5}{16}$	1 $\frac{1}{2}$	\$0.70

Twelve in cardboard box

## Weeds Pattern—Slim Blunt

## Single Cut—Parallel Sides



Will do the same work as regular extra slim blunt files. Special tant designed for use with handle equipped with solid metal ferrule into which taper shank of file fits easily.

WEED'S SPECIAL Each			Length inches	App. Width, inches	Wt. Box, lbs.	Each
F6927G	D4C6	(WSSB5)	5	$\frac{15}{64}$	$\frac{3}{4}$	
F6929G	D5C7	(WSSB6)	8	$\frac{9}{32}$	1 $\frac{1}{2}$	.85

Twelve in cardboard box. Complete with 4 Handles

STAR ★ DENOTES BEST SELLER

ALL NUMBERS—SOLD ONLY IN FULL BOXES

## SAW FILES

## Cantsaw

## Single Cut—Parallel Edges



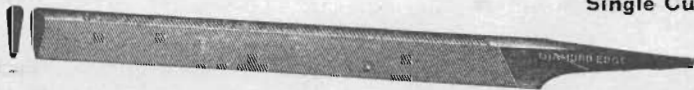
For sharpening crosscut saws with "M" teeth, for circular saws and for saw teeth with less than 60 degree angle. (Have same number of teeth per inch as mill bastard files of the same lengths.)

KEEN KUTTER			NICHOLSON			Lgth.,	App.	Wt.	
Each			Each			ins.	Size,	Box,	Each
							ins.	lbs.	
F6529GK	D6C3★	(KCS6).....	F6676G	D6C7★	(NCS6).....	6	$1\frac{1}{32} \times 1\frac{1}{64}$	1 $\frac{1}{8}$	\$1.00
F6530GK	D7C2★	(KCS8).....	F6677G	D7C9★	(NCS8).....	8	$1\frac{1}{16} \times 1\frac{1}{64}$	2 $\frac{3}{4}$	1.20
F6531GK	D9C6	(KCS10).....	F6678G	X1D08	(NCS10).....	10	$1\frac{3}{16} \times \frac{5}{16}$	5 $\frac{1}{4}$	1.65

Twelve in cardboard box.

## Great American Cross Cut

## Single Cut—Knife Shape



Designed for sharpening great American crosscut saws but can be used on a great variety of other crosscut saws.  
The rounded backs are used to deepen the rounded gullet of saw teeth.

KEEN KUTTER			NICHOLSON			Lgth.,	App.	Wt.	
Each			Each			ins.	Size,	Box,	Each
							ins.	lbs.	
F6561GK	D8C5★	(KGA9).....	F6713G	D9C3★	(NGA8).....	8	$1\frac{1}{16} \times \frac{9}{32}$	3 $\frac{3}{8}$	\$1.40
F6562GK	X1D33	(KGA10).....	F6714G	X1D14	(NGA10).....	10	$2\frac{3}{16} \times 2\frac{3}{64}$	6	1.75

Twelve in cardboard box.

ALL NUMBERS—SOLD ONLY IN FULL BOXES

## MECHANICS' FILES

## MILL FILES

For filing mill or circular saws, planer and mowing machine knives. For lathe work, draw filing and for finishing the several compositions of brass and bronze. Also for sharpening agricultural tools, such as garden, field and cotton hoes.

## Mill Bastard

## Single Cut, Tapering Sides, Both Edges Square

KEEN CUTTER			NICHOLSON			BLACK DIAMOND			Lgth., ins.	Wt. Box, lbs.	Each
Each			Each			Each					
F6585GK	D3C3	(KM4)	F6744G	D3C7	(NM4)				4	3/8	\$0.55
F6586GK	D3C6★	(KM6)	F6745G	D4C0★	(NM6)	F6488G	D4C0★	(BDM6)	6	1 1/4	.60
F6587GK	D4C1	(KM7)	F6746G	D4C5	(NM7)				7	2	.70
F6588GK	D4C4★	(KM8)	F6747G	D4C9★	(NM8)	F6489G	D4C9★	(BDM8)	8	2 3/4	.75
F6589GK	D5C8★	(KM10)	F6748G	D6C4★	(NM10)	F6490G	D6C4★	(BDM10)	10	5 1/4	1.00
F6590GK	D8C1★	(KM12)	F6749G	D8C9★	(NM12)	F6491G	D8C9	(BDM12)	12	4 1/2	1.35
F6591GK	X1C15	(KM14)	F6750G	X1D27	(NM14)	F6492G	X1D27	(BDM14)	14	6 3/8	1.90
F6592GK	X1C60	(KM16)	F6751G	X1D75	(NM16)				16	10 1/8	2.65

4 to 10 inch, twelve, 12 to 16 inch, six in cardboard box

## Mill Smooth

## Single Cut, Tapering Sides, Both Edges Square

NICHOLSON			Length, Inches	Weight Box, lbs.	Each
Each					
F6752G	D5C5	(NMS6)	6	1 1/8	\$0.85
F6753G	D6C5★	(NMS8)	8	2 3/4	1.00
F6754G	D8C4★	(NMS10)	10	5 1/4	1.25

Twelve in cardboard box

## Mill Bastard—Two Round Edges

## Single Cut, Tapering Sides

The round edges prevent file from causing sharp corners or edges in the gullets of crosscut saws.

KEEN CUTTER			Length, inches	Weight Box, lbs.	Each
Each					
F6627GK	D5C3	(K2RE6)	6	1 1/8	\$0.80
F6628GK	D6C5★	(K2RE8)	8	2 1/2	1.00
F6629GK	D8C4	(K2RE10)	10	5	1.25

Twelve in cardboard box

ALL NUMBERS—SOLD ONLY IN FULL BOXES

## FILE INFORMATION

## Standard Cuts of Standard Files

(XF Swiss Pattern Excepted)

{ Bastard—20 to 25 Teeth to inch  
Second Cut—30 to 40 Teeth to inch  
Smooth—50 to 60 Teeth to inch  
Dead Smooth—70 to 80 Teeth to inch

## MECHANICS' FILES

## FLAT FILES

## Double Cut—Tapered Sides



Rectangular cross section. Commonly used by machinists, machinery builders, ship and engine builders. Recommended wherever metal must be removed rapidly and where finish is of second importance.

## Flat Bastard

KEEN KUTTER  
Each

.....
F6550GK D6C0★ (KFB8).....
F6551GK D8C0★ (KFB10)....
F6552GK X1D10 (KFB12)...
.....

NICHOLSON  
Each

F6692G D5C5★ (NFB6).....
F6693G D6C6★ (NFB8).....
F6694G D8C7★ (NFB10).....
F6695G X1D21★ (NFB12).....
F6696G X1D66★ (NFB14).....

Length,  
inchesWeight  
Box, lbs.

## Each

6	1¼	\$0.85
8	3½	1.00
10	7	1.30
12	6	1.80
14	9½	2.50

6 to 8 inch, twelve. 10 to 14 inch, six in cardboard box.

Flat Smooth  
Fine Double CutNICHOLSON  
Each

F6704G D5C9.....(NFS4).....	4	¾	\$0.90
F6705G D6C6.....(NFS6).....	6	1½	1.00
F6706G D8C2★.....(NFS8).....	8	3½	1.25
F6707G X1D09★.....(NFS10).....	10	7	1.65
F6708G X1D50★.....(NFS12).....	12	6	2.25
F6709G X2D09.....(NFS14).....	14	9½	3.15

4 to 8 inch, twelve. 10 to 14 inch, six in cardboard box

## WARDING FILES

## Double Cut



Rectangular in section. Used principally by locksmiths in repairing or filing ward notches in keys. Also suited for use in narrow spaces where other files would be too thick.

## Warding Bastard

KEEN KUTTER  
Each

F6625GK D4C5★ (KWB4)...
F6626GK D5C5★ (KWB6)....

NICHOLSON  
Each

F6793G D5C0 (NWB4).....
F6794G D6C1 (NWB6).....

Length,  
inchesWeight  
Box, lbs.

## Each

4	¾	\$0.75
6	¾	.90

Twelve in cardboard box

ALL NUMBERS—SOLD ONLY IN FULL BOXES

STAR ★ DENOTES BEST SELLER

## MECHANICS' FILES

## MACHINISTS FILES



Used by engineers and machinists for rapid removal of metal. Rounded on one side and flat on the other—permits effective use on concave or convex surfaces. Tapered towards point in width and thickness.

## Half Round Bastard

## Both Sides Double Cut

KEEN KUTTER Each		NICHOLSON Each		Length, inches	Weight, Box, lbs.	Each
.....		F6716G	D6C0 (NHR4) .....	4	$\frac{5}{8}$	\$0.90
F6564GK	D6C9 (KHR6)....	F6717G	D7C6 (NHR6) .....	6	$1\frac{1}{8}$	1.15
F6565GK	D8C5★ (KHR8)....	F6718G	D9C3★ (NHR8) .....	8	$3\frac{1}{8}$	1.40
F6566GK	X1D03★ (KHR10)...	F6719G	X1D14★ (NHR10) .....	10	$2\frac{7}{8}$	1.70
F6567GK	X1D33★ (KHR12)...	F6720G	X1D46★ (NHR12) .....	12	$4\frac{15}{16}$	2.20
F6568GK	X1D75 (KHR14)...	F6721G	X1D92★ (NHR14) .....	14	8	2.90
.....		F6722G	X2D56 (NHR16) .....	16	$11\frac{1}{8}$	3.85

4 to 8 inch, twelve. 10 to 16 inch, six in cardboard box.

## Half Round Smooth

## Flat Side Double Cut, Backs are Single Cut

KEEN KUTTER Each		NICHOLSON Each		Length, inches	Weight Box, lbs.	Each
.....		F6728G	D8C9 (NHR56) .....	6	$1\frac{1}{8}$	<del>\$1.35</del>
F6573GK	X1D00★ (KHRS8)...	F6729G	X1D10★ (NHR58) .....	8	$3\frac{1}{4}$	1.65
F6574GK	X1D21★ (KHRS10)...	F6730G	X1D34★ (NHR510) .....	10	$3\frac{1}{8}$	2.00

6 to 8 inch, twelve. 10 inch, six in cardboard box.

ALL NUMBERS—SOLD ONLY IN FULL BOXES

## MECHANICS' FILES

## ROUND FILES

## (Rat-Tail)

Circular in section. Used principally for filing circular openings or concave surfaces. They taper slowly towards the point.

## Round Bastard

4 and 5-inch, Single Cut. 6-inch and Longer, Double Cut

KEEN KUTTER			NICHOLSON			Length, inches	Diameter, inches	Weight Box, lbs.	Each
Each			Each						
F6600GK	D3C5★	(KRB4).....	F6756G	D3C9★	(NRB4).....	4	$\frac{1}{8}$	$\frac{1}{4}$	\$0.60
F6601GK	D4C0★	(KRB6).....	F6757G	D4C4★	(NRB6).....	6	$\frac{1}{32}$	$\frac{3}{4}$	.65
F6603GK	D4C9★	(KRB8).....	F6759G	D5C4★	(NRB8).....	8	$\frac{5}{16}$	1 $\frac{3}{4}$	.80
F6604GK	D6C3★	(KRB10).....	F6760G	D7C0★	(NRB10).....	10	$\frac{3}{8}$	3 $\frac{1}{4}$	1.05
F6605GK	D8C9	(KRB12).....	F6761G	D9C3	(NRB12).....	12	$\frac{1}{2}$	3 $\frac{3}{8}$	1.40
.....			F6762G	X1D34	(NRB14).....	14	$\frac{5}{8}$	6 $\frac{3}{8}$	2.10

4 to 10 inch, twelve. 12 to 14 inch, six in cardboard box

Circular in section. Used principally for filing circular openings or concave surfaces. They taper slowly towards the point.

## Round Second Cut

6, 8 and 10-inch, Single Cut. 12 inch, Double Cut

NICHOLSON			Length, inches	Diameter, inches	Weight Box, lbs.	Each
Each						
F6769G	D5C0	(NRSC6).....	6	$\frac{1}{32}$	$\frac{3}{4}$	\$0.75
F6770G	D6C1	(NRSC8).....	8	$\frac{5}{16}$	1 $\frac{3}{4}$	.90
F6771G	D7C9	(NRSC10).....	10	$\frac{3}{8}$	3 $\frac{1}{4}$	1.20
F6772G	X1D07	(NRSC12).....	12	$\frac{1}{2}$	3 $\frac{1}{4}$	1.60

6 to 10 inch, twelve. 12 inch, six in cardboard box

Circular in section. Used principally for filing circular openings or concave surfaces. They taper slowly towards the point.

## Round Smooth

## Cut Single

NICHOLSON			Length, inches	Diameter, inches	Weight Box, lbs.	Each
Each						
F6764G	D4C9★	(NRS4).....	4	$\frac{5}{32}$	$\frac{1}{4}$	\$0.75
F6765G	D5C6★	(NRS6).....	6	$\frac{1}{32}$	$\frac{3}{4}$	.85
F6766G	D6C7★	(NRS8).....	8	$\frac{5}{16}$	1 $\frac{3}{4}$	1.00
F6767G	D8C8	(NRS10).....	10	$\frac{3}{8}$	3 $\frac{1}{4}$	1.35
F6768G	X1D17	(NRS12).....	12	$\frac{1}{2}$	3 $\frac{3}{8}$	1.75

4 to 10 inch, twelve. 12 inch, six in cardboard box

ALL NUMBERS—SOLD ONLY IN FULL BOXES

STAR ★ DENOTES BEST SELLER

## MECHANICS' FILES

## SQUARE FILES

Double Cut, Taper Sides



Square in section. Used principally for filing slots, key-seats, and general surface filing. Preferred by many to flat files because it is heavier in section and has four filing surfaces.

Square Bastard

## KEEN KUTTER

Each  
.....

F6615GK D5C2★ (KSB6).....

F6616GK D6C2★ (KSB8).....

.....

.....

## NICHOLSON

Each  
F6779G D4C7★ (NSB4).....

F6780G D5C8★ (NSB6).....

F6781G D6C9★ (NSB8).....

F6782G D9C2★ (NSB10).....

F6783G X1D27★ (NSB12).....

Length,  
inches

4

6

8

10

12

Size  
Large  
End, ins.  
 $\frac{1}{8}$

 $\frac{7}{32}$  $\frac{5}{16}$  $\frac{3}{8}$  $\frac{1}{2}$ 

Weight  
Box, lbs.  
 $\frac{3}{8}$

1

2

 $3\frac{1}{4}$  $4\frac{1}{2}$ 

Each  
\$0.70

.90

1.05

1.40

1.90

4 to 10 inch, twelve. 12 inch, six in cardboard box

## KNIFE FILES

Tapered Sides



Used principally by tool and die makers on work having acute angles.

Knife Bastard

## KEEN KUTTER

Each  
F6583GK D7C8★ (KKB6).....

.....

## NICHOLSON

Each  
F6737G D8C6★ (NKB6).....

F6738G X1D06★ (NKB8).....

Length,  
inches

6

8

Weight  
Box, lbs.  
1

 $2\frac{1}{4}$ 

Each  
\$1.30

1.60

Twelve in cardboard box

## SPECIAL PURPOSE FILES

## CORRUGATING FILES

Double Cut—Rectangular Section



For corrugating the edges of barbers' shears and other edged tools. Will corrugate the blade when stroked straight across, or in other words at right angles to the blade.

## KEEN KUTTER

Each  
F6630GK D7C6★ (KBC6).....

F6631GK D9C4★ (KBC8).....

Length,  
inches

6

8

Weight  
Box, lbs.

 $2\frac{1}{2}$ 

5

Each  
\$1.15

1.40

Twelve in cardboard box

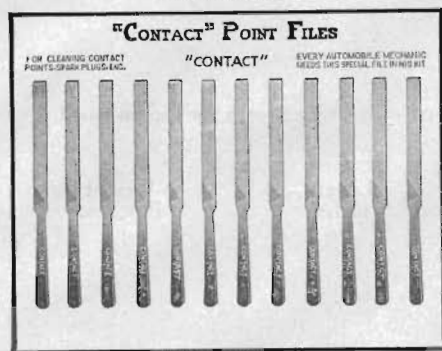
ALL NUMBERS—SOLD ONLY IN FULL BOXES

STAR ★ DENOTES BEST SELLER

## CONTACT POINT FILES

For cleaning dirt and corrosion from contact points and spark gaps of magnetos, coils, electric bells and switches.

## NICHOLSON



Highest quality file steel, double cut both sides, highly tempered. Chisel point for entering slots or gaps easily. File face  $2\frac{3}{4}$  inches long. Length over all  $5\frac{1}{4}$  inches.

(NCP5)

Per Card  $\Delta$  Each  
F6514G X1D69★.....\$0.25

Twelve on card. One card in box. Wt. box  $4\frac{3}{4}$  ozs.

**Sold Only in Full Card**

## "ALLIGATOR"



## Swiss Pattern

Ball end of handle .03 thick for spacing spark gap.

High grade spring-tempered file steel, double cut, highly tempered. Chisel point for entering slots or gaps easily. File face  $3\frac{3}{8}$  inches long. Length over all 6 inches.

On Cards  
(60)

Per Bundle  $\Delta$  Each  
F6508G-60 X1D40.....\$0.20

Twelve in a bundle. Wt. bundle  $\frac{1}{4}$  lb

**Sold Only in Full Bundles**

## NICHOLSON



## Tungsten Point Files

For dressing distributor points that are tipped with tungsten, iridium or similar metals. Extreme end of handle correct thickness gauge for spark plug gap.

Highest quality file steel, double cut both ends. Chisel point for entering slots or gaps easily. Orange enameled handle. File face  $3\frac{1}{4}$  inches long. Length over all 6 inches

(TPH)

Each  $\Delta$  Each  
F6515G D1C6★.....\$0.25

Twelve in box. Wt. box  $\frac{1}{4}$  lb.

## AUGER BIT FILES



Specially designed to restore original sharpness to cutting edges of bits. Edges of one end are "safe" or uncut while sides of other end are safe. This construction prevents damage to surfaces adjacent to those being filed.

Tempered file steel, polished. Approximate size  $1\frac{1}{2} \times \frac{1}{16}$  inch. Length of cutting ends  $1\frac{1}{4}$  inches. Length over all 7 inches.

(17)

Each  $\Delta$  Each  
F6505G D5C0★.....\$0.75

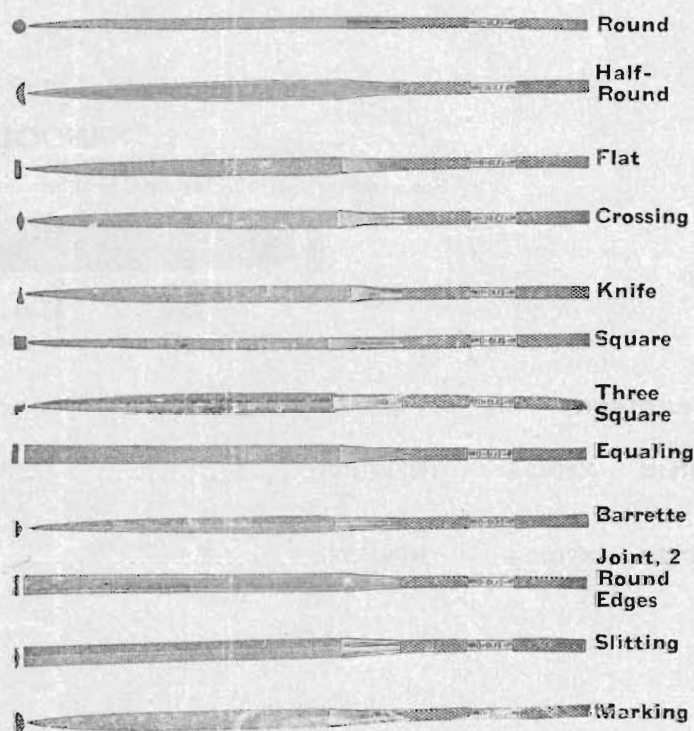
Twelve in box. Wt. box  $\frac{3}{4}$  lb.

## X. F. SWISS PATTERN FILES

## NICHOLSON

## ROUND HANDLE NEEDLE FILES

Used principally by jewelers, die makers, watchmakers and fine tool makers.



**Assortment Consists of Twelve Files—One each as follows:**

Round	Crossing	Three Square	Joint—2 Round Edges
Half-Round	Knife	Equaling	Slitting
Flat	Square	Barrette	Marking

Length 4 inches. Cut No. 0. Knurled handles.

(RHN40)

Per Asst.  $\Delta$  Asst.  
F6517G X6D77.....\$10.15

Wt. asst.  $\frac{1}{8}$  lb.

Length  $6\frac{1}{4}$  inches. Cut No. 2 Knurled handles.

(RHN62)

Per Asst.  $\Delta$  Asst.  
F6518G X9D40.....\$14.10

One asst. in convenient plastic file rack box Wt. asst.  $\frac{3}{8}$  lb.

**ALL NUMBERS—SOLD ONLY IN FULL BOXES**

**STAR ★ DENOTES BEST SELLER**

## WOOD FILES



Half-round Wood

These files have the same section as half-round metal cutting files except with coarser teeth for use on wood.

## KODON KUTTER

Each			Length, inches	Weight Box, lbs.	Each
F6576GK	X1D03★	(KHRW10)	10	3	\$1.75

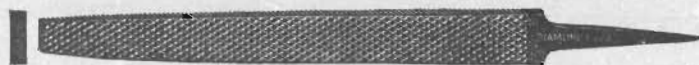
## NICHOLSON

F6698G	X1D14★	(NHRW10)	10	3	1.75
--------	--------	----------	----	---	------

Six in cardboard box

## WOOD RASPS

For woodworkers, wheelwrights, plumbers and general wood work. Both faces same rasp cut.



Flat Wood  
Bastard Cut—Tapered Sides

## NICHOLSON

Each			Length, inches	Weight Box, lbs.	Each
F6711G	X1D63★	(NFWR10)	10	3½	\$2.45
F6712G	X2D23★	(NFWR12)	12	5¾	3.35



Half-round Wood  
Bastard Cut—Tapered Sides

## NICHOLSON

Each			Length, inches	Weight Box, lbs.	Each
F6732G	X1D28★	(NIHRWR8)	8	1⅝	\$1.95
F6733G	X1D74★	(NIHRWR10)	10	3¼	2.60
F6734G	X2D39★	(NHRWR12)	12	5¼	3.60

Six in cardboard box

ALL NUMBERS—SOLD ONLY IN FULL BOXES

STAR ★ DENOTES BEST SELLER

## RASPS HALF-ROUND CABINET

For use by cabinet makers and woodworkers. The curved side is similar to that of half-round rasps but with larger radius. Both faces same rasp cut.



### REGULAR

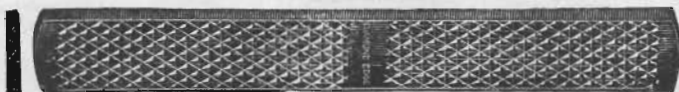
#### NICHOLSON

Each				Lgth., ins.	Wt., Box, lbs.	Each
F6723G	X1D63	(NHRCR8)	.....	8	2 $\frac{3}{4}$	\$2.45
F6724G	X2D23	(NHRCR10)	.....	10	2 $\frac{3}{8}$	3.35
F6725G	X2D90	(NHRCR12)	.....	12	4 $\frac{1}{16}$	4.35

8-inch, twelve. 10 to 12-inch, six in cardboard box

## PLAIN HORSE RASPS—ONE-HALF FILE

These rasps are double-ended, have rasp teeth on one side and double cut coarse file teeth on the other. Edges are single cut coarse.



### Regular

Rectangular in section. Has file teeth on one side and rasp teeth on other. Made especially for horseshoers.

#### NICHOLSON

Each				Lgth., ins.	App. Size, ins.	Wt. Box, lbs.	Each
F6662G	X1D06	(NP12)	.....	12	1 $\frac{11}{32}$ x1 $\frac{11}{32}$	6 $\frac{7}{8}$	\$1.60
F6663G	X1D48	(NP14)	.....	14	1 $\frac{1}{2}$ x $\frac{3}{8}$	8 $\frac{13}{16}$	2.25
F6664G	X2D04	(NP16)	.....	16	1 $\frac{11}{16}$ x $\frac{7}{16}$	13 $\frac{1}{8}$	3.10



### Slim

Rectangular in section. Made especially for horse-shoers.

#### NICHOLSON

Each				Length, inches	App. Size, inches	Wt. Box, lbs.	Each
F6665G	X2D15	(NPS18)	.....	18 (15-inch stock)	1 $\frac{9}{16}$ x1 $\frac{13}{32}$	13	\$3.25



### Regular Tanged

Rectangular in section. Made especially for horse-shoers.

#### NICHOLSON

Each				Length, inches	App. Size, inches	Weight Box, lbs.	Each
F6666G	X1D92	(NPT14)	.....	14	1 $\frac{1}{16}$ x $\frac{7}{16}$	13	\$2.90
F6667G	X2D68	(NPT16)	.....	16	1 $\frac{7}{8}$ x1 $\frac{15}{32}$	18	4.00

Six in a cardboard box

## HALF ROUND 4-IN-HAND RASPS

(Formerly Called Shoe Rasps)

Smooth parallel sides. One-half of each surface is file cut and one-half rasp cut



For use by shoe last and shoe pattern makers. Also adapted for use on golf clubs and for wood filing, where a smooth finish is desired.

### Length 4 inches

KEEN KUTTER			NICHOLSON			Length, inches	App. Size, inches	Weight Box, lbs.	Each
Each									
F6608GK	D8C3	(KHRSR8)	F6773G	D8C3	(NHRSR8)	8	$\frac{7}{8}$ x $\frac{1}{4}$	2 $\frac{1}{16}$	\$1.25
F6609GK	X1D14	(KHRSR10)	F6774G	X1D14	(NHRSR10)	10	1 $\frac{1}{16}$ x $\frac{5}{16}$	3 $\frac{1}{16}$	1.75

Six in a cardboard box

All Numbers—Sold Only in Full Boxes

## FILE CARDS OR CLEANERS



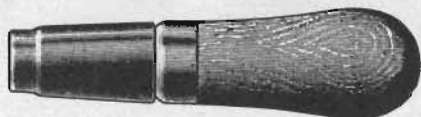
## STANDARD

Size  $4\frac{1}{2} \times 1\frac{3}{4}$  inches. Made of best steel wire. Set in heavy stiff card cloth and mounted on a plain white wood back. Length over all  $8\frac{1}{2}$  inches. Wires are  $\frac{1}{4}$  inch long, and bent to afford stiffness

Each ..... Each  
**F5219G (1) D1C5★** ..... \$0.29

Twelve in box. Wt. box  $1\frac{3}{4}$  lbs.

## FILE HANDLES



## LUTZ NEVER SPLIT

Long pressed steel ferrules prevent splitting. Ferrules cannot come off. Handle made of beechwood. Can be used with any tanged tool.

		For Files		Weight	
Each		Length, inches	Diam., inches	Length, inches	Box, lbs.
<b>F5275G (L2) D1C7★</b>		$4\frac{1}{2}$	$1\frac{5}{16}$	6 to 8	$4\frac{1}{8}$ \$0.29
<b>F5276G (L3) D1C9★</b>		$4\frac{7}{8}$	$1\frac{5}{16}$	8 to 12	$5\frac{5}{8}$ .35
<b>F5277G (L4) D2C1★</b>		$5\frac{1}{2}$	$1\frac{7}{16}$	12 to 16	$7\frac{1}{2}$ .35

Thirty-six in box



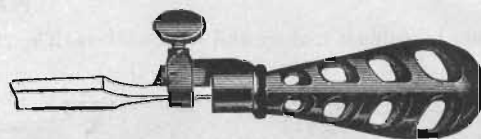
## STANDARD

Hardwood. Bored. Polished ferrule.

		For Files		Weight	
Each	Lots of 36	Lgth. in.	Diam., inches	Length, inches	Box, lbs.
<b>F5282G (P2) D0C5<math>\frac{1}{2}</math>★ D0C5★</b>		4	$1\frac{1}{8}$	6 to 7	$2\frac{1}{8}$ \$0.08
<b>F5283G (P3) D0C5<math>\frac{1}{2}</math>★ D0C5</b>		$4\frac{1}{4}$	$1\frac{1}{4}$	8 to 9	$2\frac{1}{4}$ .08
<b>F5284G (P4) D0C5<math>\frac{1}{2}</math>★ D0C5★</b>		$4\frac{1}{2}$	$1\frac{3}{8}$	10 to 12	$2\frac{5}{8}$ .08
<b>F5285G (P5) D0C6<math>\frac{1}{2}</math>★ D0C6</b>		$4\frac{3}{4}$	$1\frac{1}{2}$	14 to 16	3 .10

Thirty-six in box

## FILE AND TOOL HANDLES



A strong durable handle that will hold files of all sizes and shapes from the smallest to a 14 inch mill file. Also for gimlets, hack saw blades, screw drivers and all tools with shanks less than  $\frac{3}{8}$  inch square, round or flat.

Black japanned cast iron handle. Nickel clip and thumb screw. Length 5 inches.

Each ..... Each  
**F5286G D2C6★** ..... \$0.35  
 Lots of 24 **D2C4★** .....

Twenty-four in ctn. Wt. ctn. 8 lbs.

## TOOL HANDLES

## SPEEDCOR



## All Purpose—It's Handy

Makes a real tool of any file, reamer, hack saw blade, screw driver tap, drill and many others. Tools can be changed in seconds.

Accurately machined from highest quality steel and die cast alloy. Oregon maple handle. Self-opening jaws are locked or unlocked by a quick twist. Innerspring arrangement holds jaws in place. Positive iron slip grip holds any shape shank, flat, oval or round Operates similar to a drill chuck.

A Tool of 101 Uses  
(101)

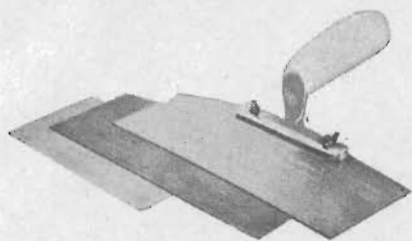
Each ..... Each  
**F5254G D6C7★** ..... \$1.00

Twelve in display box. Wt. box 3 lbs.

## DRY WALL TOOLS

### SANDS CLINSTEEL

#### FINISHING TROWEL SETS



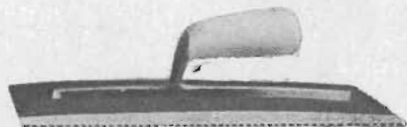
Three interchangeable, high carbon, flexible steel blades and aluminum holder with large smooth handle for perfect combination to apply tape and blend topping compound on dry wall work. Thumb rest for ease of operation and full leverage.

8x4 inch and 11x4 inch blades with concave working edge and 11x4 inch blade with straight working edge.

(60)

Per Set		Per Set
<b>F7491G X3D30</b> .....		\$4.95
One set in box. Wt. box 1 3/4 lbs.		

#### CURVED BLADE TROWELS

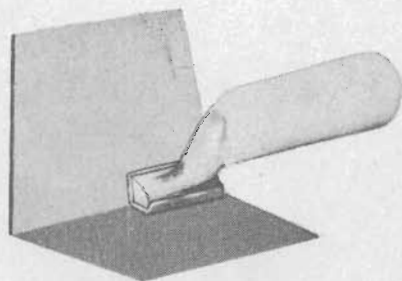


High carbon steel, flexible, curved blade with 3/16 inch, concave, heat-treated, aluminum mounting securely attached with closely spaced hardened rivets. Extra large smooth handle.

12x4 1/2 inch blade.

(63)

Each		Each
<b>F7493G X3D00</b> .....		\$4.50
One in box. Wt. box 1 lb.		



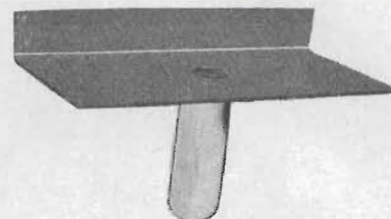
#### CORNER TROWELS

For applying tape in corners. Flexible stainless steel blade. Heat-treated aluminum mounting, extra large smooth handle. Thumb rest for ease of operation and full leverage.

(65)

Each		Each
<b>F7486G X3D30</b> .....		\$4.95
One in box. Wt. box 1 lb.		

#### ALUMINUM HAWKS



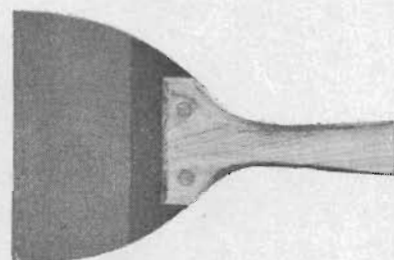
Lip on one edge. Large smooth handle and callous preventer attached with countersunk aluminum nut.

12x6 inch by 12 gauge lip rises 1 1/2 inches.

(61)

Each		Each
<b>F7492G X1D84</b> .....		\$2.75
One in box. Wt. box 1 1/2 lbs.		

#### WIDE BLADE KNIVES

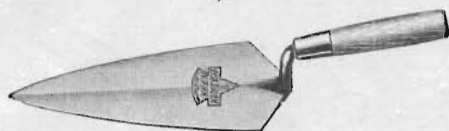


6 inch semi-flexible knife and scraper.

(66)

Each		Each
<b>F7494G D9C0</b> .....		\$1.35
Twelve in a box. Wt. box 4 lbs.		

## BRICK TROWELS

KEEN  KUTTER**Philadelphia Pattern**

One piece forged high grade steel, tempered, taper ground and polished. Straight post. Superior quality hardwood handles 6 inches long with tapered metal ferrule driven on hand crimped tangs. Perfect balance and hang.

Length of blade 11 inches. Width  $5\frac{7}{16}$  inches at heel.

Each	Each
<b>F7597GK (KKP11) X2D47★</b> .....	<b>\$3.75</b>
Six in box. Wt. box 6 lbs.	

KEEN  KUTTER**London-Narrow Pattern**

One piece blade, post and tang forged from high grade special trowel steel, tempered, taper ground, polished and lacquer dipped. Straight post with handle set at correct angle for perfect, balance and hang. Hardwood handle with tapered ferrules driven on hand crimped tang.

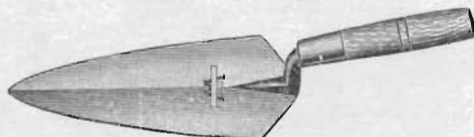
Length of blade 11 inches. Width  $4\frac{3}{4}$  inches.

Each	Each
<b>F7596GK (KKL11) X2D80</b> .....	<b>\$4.20</b>
Six in box. Wt. box $6\frac{1}{2}$ lbs.	

**MARSHALLTOWN****London Pattern**

One-piece forged special trowel steel, tapered ground and polished. Straight post with handle set at correct angle for perfect balance and hang. Hardwood handle 6 inches long driven on hand crimped tang. will not come off.

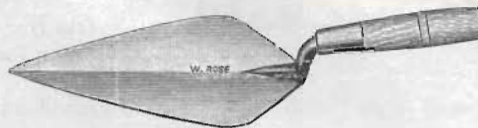
Each	Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
<b>F7557G (33W11) X2D80★</b>	11	$4\frac{7}{8}$	7	\$4.20
<b>F7558G (33W11½) X2D80★</b>	$11\frac{1}{2}$	5	$7\frac{1}{4}$	4.20
Six in box				

**MARSHALLTOWN****Philadelphia Pattern  
Square Heel**

Forged in one piece from highest grade trowel steel. Tempered, ground and polished. Hand smithed. Straight post with handle set at correct angle for perfect balance and hang. Hardwood handle. Polished ferrule.

Each	Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
<b>F7554G (19W10½) X2D80★</b>	10	$5\frac{1}{4}$	$6\frac{1}{2}$	\$4.20
<b>F7555G (19W11) X2D80★</b>	11	$5\frac{1}{2}$	7	4.20
Six in box				

ROSE

**London Pattern  
Round Heel**

Forged steel blades. Carefully tempered ground and polished. Heavy heel, flexible point. Solid steel shank.  $5\frac{3}{4}$ -inch wood handle.  $1\frac{1}{2}$ -inch polished steel ferrule. Correct hang and lift.

Each	Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
<b>F7569G (112/10½) X3D34★</b>	$10\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{4}$	\$5.00
<b>F7570G (112/11) X3D34★</b>	11	$5\frac{5}{8}$	$6\frac{1}{2}$	5.00
<b>F7571G (112/11½) X3D34★</b>	$11\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{3}{4}$	5.00

Six in box

ROSE

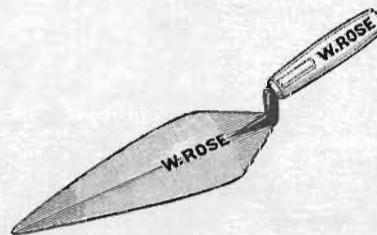
**London Pattern  
Round Heel**

Forged steel blades, carefully tempered, ground and polished. Heavy heel, flexible point. Solid steel shank.  $5\frac{1}{4}$ -inch Good-Win-Tough amber colored composition handle. correct hang and lift.

Each	Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
<b>F7589G (1412/10½) X3D67★</b>	$10\frac{1}{2}$	$5\frac{1}{2}$	6	\$5.50
<b>F7590G (1412/11) X3D67★</b>	11	$5\frac{5}{8}$	$6\frac{1}{4}$	5.50
<b>F7591G (1412/11½) X3D67★</b>	$11\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{1}{2}$	5.50

Six in box

ROSE

**Narrow London Pattern**

Forged steel blades, carefully tempered, ground and polished. Heavy heel, flexible point. Solid steel shank. Capped and double ferrule. Plastic handle, length  $5\frac{1}{4}$  inches.

Each	Lgth. Blade, ins.	Width Heel, ins.	▲Each
<b>F7587G (1416/10½) X3D67★</b>	$10\frac{1}{2}$	$5\frac{5}{8}$	\$5.50
<b>F7592G (1416/11) X3D67★</b>	11	$4\frac{3}{4}$	5.50
<b>F7593G (1416/11½) X3D67★</b>	$11\frac{1}{2}$	$4\frac{7}{8}$	5.50

Six in box. Wt. box  $6\frac{1}{2}$  lbs.

## BRICK TROWELS

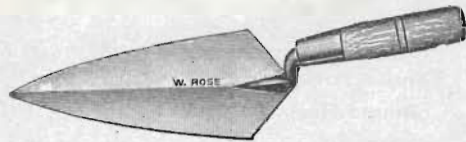


**ROSE**  
**Old Narrow**  
**London Pattern**

Forged steel blades. Carefully tempered, ground and polished. Heavy heel. Flexible point. Solid steel shank.  $1\frac{1}{2}$ -inch polished steel ferrule. Correct hang and lift. Hardwood handle, length  $5\frac{3}{4}$  inches. High shank. Center of ferrule at bend of shank  $1\frac{3}{4}$  inches above bottom of blade.

Each			Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
F7576G	(116/10 $\frac{1}{2}$ )	X3D34★	10 $\frac{1}{2}$	4 $\frac{5}{8}$	5 $\frac{3}{4}$	\$5.00
F7577G	(116/11)	X3D34★	11	4 $\frac{3}{4}$	6	5.00
F7578G	(116/11 $\frac{1}{2}$ )	X3D34★	11 $\frac{1}{2}$	4 $\frac{7}{8}$	6 $\frac{1}{4}$	5.00
F7579G	(116/12)	X3D34★	12	4 $\frac{7}{8}$	6 $\frac{1}{2}$	5.00

Six in box

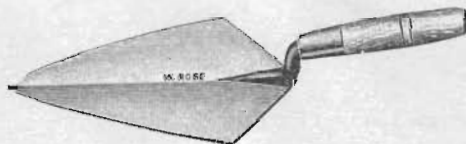


**ROSE**  
**Philadelphia**  
**Pattern**  
**Square Heel**

Forged steel blades. Carefully tempered, ground and polished. Heavy heel, flexible point. Solid steel shank.  $5\frac{3}{4}$ -inch wood handle.  $1\frac{1}{2}$ -inch polished steel ferrule. Correct hang and lift.

Each			Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
F7561G	(110/10)	X3D34	10	5 $\frac{1}{4}$	6 $\frac{1}{4}$	\$5.00
F7562G	(110/10 $\frac{1}{2}$ )	X3D34★	10 $\frac{1}{2}$	5 $\frac{3}{8}$	6 $\frac{3}{8}$	5.00
F7563G	(110/11)	X3D34★	11	5 $\frac{1}{16}$	6 $\frac{1}{2}$	5.00
F7564G	(110/11 $\frac{1}{2}$ )	X3D34	11 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{3}{8}$	5.00

Six in box



**Wide Heel**

One-half inch wider than square heel Philadelphia pattern.  $5\frac{3}{4}$  inch wood handle.

Each			Lgth. Blade, ins.	Width Heel, ins.	Wt. Box, lbs.	▲Each
F7583G	(221/11 $\frac{1}{2}$ )	X3D34	11 $\frac{1}{2}$	6	6 $\frac{3}{4}$	\$5.00

Six in box

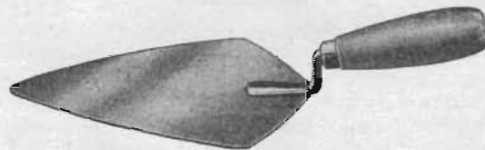
**WM. JOHNSON**



Bright polished spring tempered steel blade. Polished bronze shank silver brazed securely to the blade. Blades are dipped in wax to prevent rusting. Hardwood handle. Length blade 10 $\frac{1}{2}$  inches. Width heel 5 $\frac{1}{8}$  inches.

Each			Each
F7594G	(179-10 $\frac{1}{2}$ )	X2D00★	\$3.00

Six in box. Wt. box 4 $\frac{3}{4}$  lbs.



**WONDER**  
**Philadelphia**  
**Pattern**

Length of blade 9 $\frac{1}{2}$  inches, 4 $\frac{3}{8}$  inches wide at heel. Pressed steel shank. 4-inch hardwood handle.  $\frac{3}{8}$ -inch steel ferrule.

Each			Each
F7598G	(W10)	D2C0★	\$0.30

Six in box. Wt. box 2 $\frac{3}{4}$  lbs.

**KLICKEE**

**Philadelphia Pattern**



Heavy wrought steel blade 10x4 $\frac{3}{8}$  inches, smoothly polished. Natural finish malleable shank, securely riveted to blade.

Comfortable, shellacked wood handle 4 $\frac{3}{4}$  inches long with polished steel ferrule.

Each			Each
F7556G	(33K)	D5C5★	\$0.85

Six in box. Wt. box 2 $\frac{3}{8}$  lbs.

## POINTING TROWELS



## MARSHALLTOWN

High quality steel. Spring tempered blade. Taper ground, flexible point. Polished and etched. Solid steel shank. 4½-inch hardwood handle.

Each			Length Blade, in.	Width Heel, in.	Weight Box, lbs.	▲Each
F7616G	(45/5)	X1D13★	5	2½	1¾	\$1.70
F7617G	(45/6)	X1D13★	6	2¾	2⅛	1.70

Six in box



## WM. JOHNSON

Bright polished tempered steel blade. Polished bronze shank. Silver brazed securely

to the blade. Blades are dipped in wax to prevent rusting. Hardwood handles.

Length 5½ inches. Width 2⅝ inches.

Each			Each
F7613G	(183-5½)	X1D00★	\$1.50

Twelve in box. Wt. box 3¼ lbs.



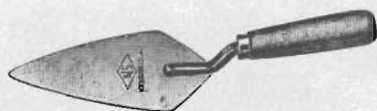
## HOWARD

All steel blade, 5½x2⅝ inches. Tightly riveted to strong, natural finish malleable shank. Polished steel ferrule.

Smooth varnished hardwood handle 4⅝ inches long.

Each			Each
F7623G	(H15)	D3C0★	\$0.45

Twelve in box. Wt. box 3 lbs.



## WONDER

Blade 5⅝ inches long, pressed steel shank. Polished ferrule. 4-inch hardwood handle.

Each			Each
F7625G	(W5)	D1C1★	\$0.18

Twelve in box. Wt. box 2½ lbs

## GAUGING TROWELS

## MARSHALLTOWN



## Round Nose

Forged in one piece from highest grade trowel steel, tempered, ground and polished. Hardwood handle with polished steel ferrule.

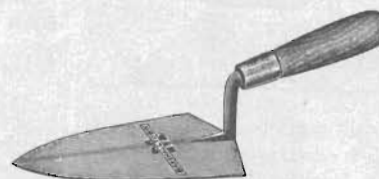
Length of blade 7 inches. Width at heel 3⅝ inches.

Each			▲Each
F7621G	(48)	X1D80	\$2.70

Six in box. Wt. box 3 lbs.

## TILE SETTERS TROWELS

## MARSHALLTOWN



Forged in one piece from highest grade trowel steel, tempered, ground and polished. Hardwood handle with polished steel ferrule.

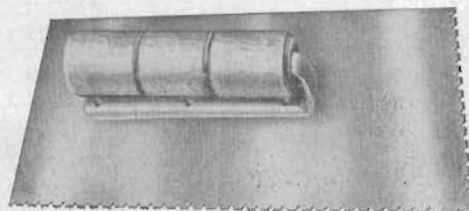
Length of blade 7 inches. Width at heel 4⅝ inches.

Each			▲Each
F7622G	(57)	X1D87	\$2.80

Six in box. Wt. box 3½ lbs.

## LINOLEUM AND TILE TROWELS

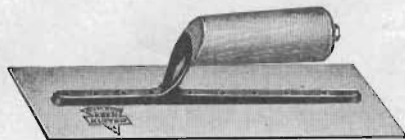
## ENNIS



Fine steel blade 4⅞x9⅝ inches with fine uniform serrations and angle cut ends to make spreading easy along walls and in corners. Fastened to bright steel mounting with large hardwood handle.

Each			Each
F7635G	(327/10)	D2C9★	\$0.45

Twelve in box. Wt. box 12 lbs.

KEEN  KUTTER**Extra Light**

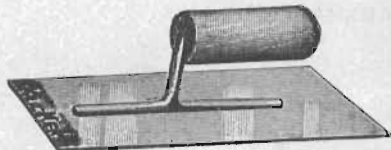
Special formula trowel steel, highly polished blade, fastened to aluminum alloy mounting and shank with hardened steel rivet. Finest quality tapered wood handle fastened on full tang with brass nut and washer.

Suggested  
Retail Size  
Each Each ins. Each

F7650GK (KKX1) X3D33 4.45 4½x11 \$5.00

F7651GK (KKX2) X3D33 4.45 4½x11½ 5.00

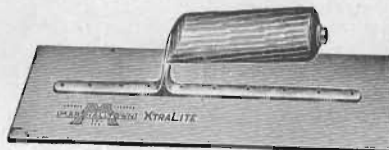
One in box. Wt. box 1 lb.

**KLICHER**

Tempered, smoothly ground, polished steel blade. Held by four rivets to natural finish shank with tang that extends through handle and is headed on the end over a washer. Handle cannot slip off of tang. Blade will not loosen from shank. Plain finish hardwood handle 4 inches long. 10½x4½ inches.

Each Each  
F7627G (10½K) D8C5★.....\$1.25

Six in box. Wt. box 6 lbs.

**PLASTERING TROWELS****MARSHALLTOWN—"XTRALITE"****Finishing**

Light spring steel blade, tempered, ground and polished. Special forged aluminum alloy mounting. Hard steel rivets. Smooth turned wood handle fastened with brass nut and washer. Is 25% lighter than regular finishing trowel of same size.

Each	Size, ins.	Each
F7677G (MX91) X3D43★	10½x4½	\$5.15
FX7677G (MX91) X3D43★	—(Case lots 12)	
F7666G (MX1) X3D43★	11x4½	5.15
FX7666G (MX1) X3D43★	—(Case lots 12)	
F7667G (MX2) X3D43★	11½x4½	5.15
FX7667G (MX2) X3D43★	—(Case lots 12)	
F7668G (MX3) X3D43	11x4¾	5.15
FX7668G (MX3) X3D43	—(Case lots 12)	
F7674G (MX4) X3D43	11½x4¾	5.15
FX7674G (MX4) X3D43	—(Case lots 12)	

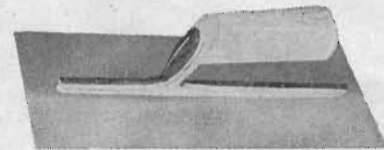
One in box. Twelve in ctn. Wt. ctn. 12 lbs.

**MARSHALLTOWN—"XTRALITE"****Finishing—California Handle**

Light spring steel blade, tempered, ground and polished. Special forged aluminum alloy mounting. Hard steel rivets. Smooth turned wood handle fastened with brass nut and washer. Is 25% lighter than regular finishing trowel of same size.

Each	Size, ins.	Each
F7687G (MXS91) X3D43★	10½x4½	\$5.15
FX7687 (MXS91) X3D43★	—(Case lots 12)	
F7678G (MXS1) X3D43★	11x4½	5.15
FX7678G (MXS1) X3D43★	—(Case lots 12)	
F7684G (MXS2) X3D43★	11½x4½	5.15
FX7684G (MXS2) X3D43★	—(Case lots 12)	
F7685G (MXS3) X3D43★	11x4¾	5.15
FX7685G (MXS3) X3D43★	—(Case lots 12)	
F7686G (MXS4) X3D43★	11½x4¾	5.15
FX7686G (MXS4) X3D43★	—(Case lots 12)	

One in box. Twelve in ctn. Wt. ctn. 12 lbs.

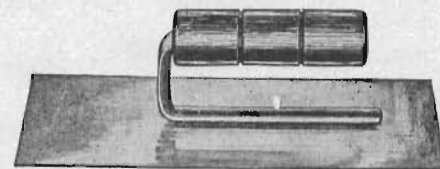
**VERNONTOWN**

Carbon steel, lacquered to protect finish, aluminum mounting has 10 rivets. Selected hardwood handle.

Size 11x4½ inches.

Each ▲Each  
F7644G (100) X1D35.....\$2.00

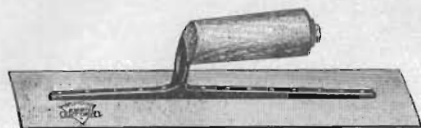
Six in box. Wt. box 6 lbs.

**WONDER**

Blade welded to shank. Pressed steel handle. Size of blade 10x4½ inches.

Each  
F7692G (WP10) D2C7★.....\$0.45  
Twelve in box. Wt. box 10¾ lbs.

## CEMENT FINISHING TROWELS

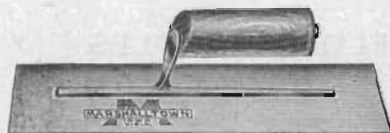
KEEN  KUTTER

Special formula trowel steel blade, securely fastened to special alloy shank, has the strength of hardened tool steel. Will stay rigid and straight under severe strain. Finest quality wood straight handle.

Each			Size, ins.	Wt. Box, lbs.	Each
F7648GK	(KKC14)	X3D33	4x14	5 $\frac{3}{4}$	\$5.00
F7649GK	(KKC16)	X3D81	4x16	5 $\frac{3}{4}$	5.75

Four in box

## MARSHALLTOWN

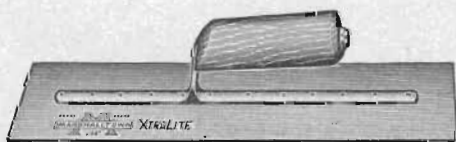


Highest grade trowel steel blade, tempered, ground and polished. Securely fastened to mounting. Light weight and rigid. Slightly convex blade.

Smooth turned natural wood handle, shaped for a comfortable grip.

Each			Size, ins.	No. of Rivets	Wt. Ctn., lbs.	No. in Ctn.	▲Each
F7656G	(MC62)	X3D16★	4x12	10	24	24	\$4.75
FX7656G	(MC62)	X3D16★	(Case lots 24)				
F7657G	(MC64)	X3D43★	4x14	12	27	24	5.15
FX7657G	(MC64)	X3D43★	(Case lots 24)				
F7658G	(MC66)	X3D90★	4x16	14	16 $\frac{1}{2}$	12	5.85
FX7658G	(MC66)	X3D90★	(Case lots 12)				
FX-MC77-G		X4D33	4 $\frac{1}{2}$ x18	16	2	1	6.50

## MARSHALLTOWN XTRALITE



Forged Aluminum Mounting. Straight Handle.

Properly shaped blade and perfect balance. Flexible highest grade tempered spring steel. Smooth finished basswood handle is held firmly by brass nut and washer.

Each			Size, in.	▲Each
F7675G	(G-MX62)	X3D43	12x4	\$5.15
F7676G	(G-MX64)	X3D73	14x4	5.60

Twelve in ctn. Wt. ctn. 15 lbs.

## CEMENT FINISHING TROWELS

## MARSHALLTOWN XTRALITE



## Narrow Fanning Pattern

Highest grade spring steel blade, properly shaped with proper balance. Forged aluminum alloy mounting. Smooth finish basswood handle fastened with brass nut and washer.

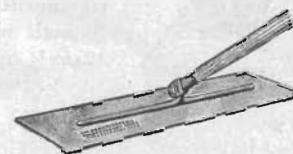
## Size 12x3 Inches. 10 Rivets.

Each			Size, in.	Rivets	Wt. ctn lbs.	▲Each
F7655G	(MX56)	X3D43★	12x3	10	12	\$5.15
F7659G	(MX57)	X3D73	14x3	12	14	5.60

One in box. Twelve in ctn. Wt. ctn. 14 lbs.

## CEMENT TROWELS

## MARSHALLTOWN



Highest grade spring steel blade, tempered, ground and polished. Malleable mounting brass bolt and nut. Finest quality ash handle 6 feet long. Adjustable to any position. Length of blade 24 inches. Width 5 inches.

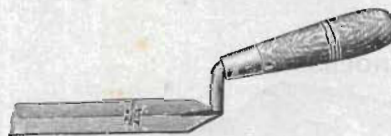
Each ▲Each

FX-C24-G X8D00★.....\$12.00

Loose. Wt. each 4 lbs.

## MARGIN TROWELS

## MARSHALLTOWN



Highest grade trowel steel Tempered, ground and polished. Hardwood handle with polished ferrule. Size 5x2 inches.

Each			▲Each
F7611G	(52)	X1D13★	\$1.70

Six in box. Wt. box 2 lbs.

**PLASTERERS' DARBIES**

18-inch rib. Smooth finish and straight edges. Upright handle. Size 42x3x $\frac{3}{4}$  inch.

**SANDS**

Each	Mathogany—Without Binding	Weight	
<b>F7521G</b>	(11) <b>X1D83★</b>	Each, lbs.	▲ Each
		1 $\frac{1}{2}$	\$2.75

**NICHOLLS**

	Sugar Pine—With Aluminum Binding		
<b>F7522G</b>	(12) <b>X2D07</b>	2	3.10

**PLASTERERS' FLOATS  
MARSHALLTOWN****Cork Face  
Handled**

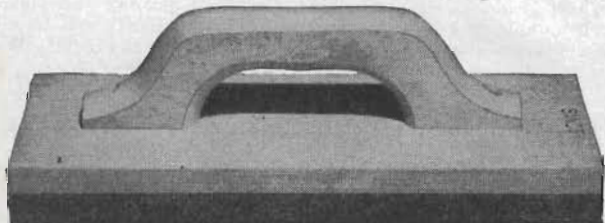
Redwood back with cork face. Size 12x5x1 $\frac{1}{4}$  inches.

Each		Each
<b>F7484G</b>	(41) <b>X2D33</b>	\$3.50
	Three in box. Wt. box 3 lbs.	

**Wood**

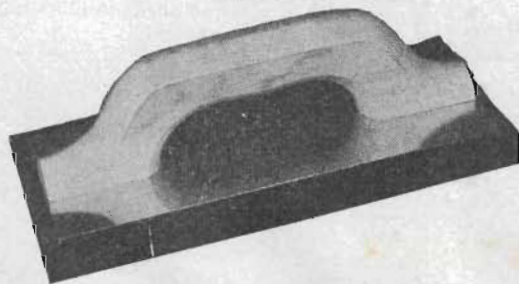
Seasoned redwood. Finished smooth. Square edges. Smooth wood handle. Size 12x5x $\frac{3}{4}$  inch.

Each		Each	Each
<b>F7485G</b>	(44F) <b>D6C7★</b>	\$1.00	
	Four in box. Wt. box 3 lbs.		

**NICHOLLS**

Seasoned and treated redwood, finished smooth with square edge. High grade cork face. Smooth wood handle firmly attached. Size of face 5x12 inches. Cork attached  $\frac{1}{2}$  inch wood base. Cork thickness  $\frac{3}{4}$  inch.

Each		▲ Each
<b>F7487G</b>	(CK1) <b>X1D31</b>	\$2.05
	Four in box. Wt. box 4 lbs.	

**NICHOLLS****Rubber Face**

Aluminum back with heavy rubber face  $\frac{3}{4}$  inch thick, securely fastened. Large hardwood comfortable handle, natural finish. Length 8 inches. Width 4 inches.

Each		▲ Each
<b>F7483G</b>	(RF11) <b>D8C7</b>	\$1.30
	Four in box. Wt. box 3 lbs.	

**BASES**

For No. 38 Floats

Each		Each
<b>F7490G</b>	(RF7F) <b>D2C3</b>	\$0.35
	Loose. Wt. each 2 ozs.	

**PLASTERERS' FLOATS  
NICHOLLS**

Aluminum angle floats. Smooth wood handle firmly attached. Size of face 10x3 $\frac{3}{4}$  inches with  $\frac{1}{8}$  inch flange.

Each		▲ Each
<b>F7508G</b>	(MF4) <b>X1D50</b>	\$2.25
	Six in box. Wt. box 5 lbs.	

**WOOD FLOATS  
NICHOLLS**

Plain wood. Smooth handle firmly attached. Size of face 4 $\frac{1}{2}$ x12 inches.

Each		▲ Each
<b>F7506G</b>	(CF7) <b>D5C6★</b>	\$0.85
	Four in ctn. Wt. ctn. 4 $\frac{3}{8}$ lbs.	

**PLASTERERS' FLOAT HANDLES  
NICHOLLS**

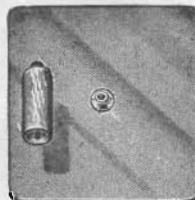
Smooth turned seasoned wood. Shaped for comfortable grip. 9 inches long and 2 $\frac{3}{4}$  inches high.

Each		▲ Each
<b>F5249G</b>	(16) <b>D2C7</b>	\$0.40
	Loose. Wt. each 4 ozs.	

**PLASTERERS' PADDLES  
MARSHALLTOWN**

Clear seasoned walnut. 8 $\frac{1}{4}$  inches long. Head 2 $\frac{7}{8}$  inches wide,  $\frac{3}{4}$ -inch thick and beveled to a working edge. No. 337 edge has bronze blade securely inserted.

Each		Kind of	Wt.	Each
<b>F7614G</b>	(336) <b>D4C7</b>	Edge	Box, lbs.	
		Plain	1 $\frac{3}{16}$	\$0.70
		Six in box		

**PLASTERERS' HAWKS  
NICHOLLS****Polished Aluminum**

Made of 12-gauge hard rolled aluminum. Edges are smooth and straight, corners rounded. Face has serrated or undercut scoring. Exceptional strength is insured in this hawk due to the exclusive method used of attaching the aluminum nut to the plate and handle. When assembled the angles of plate and nut form a positive tie securely fastening the handle to the plate. Supplied with soft sponge rubber callous preventer and natural finish hardwood handle.

Each		Size, inches	Weight	▲ Each
<b>F7525G</b>	(NMM1) <b>X1D93★</b>	13x13	Box, lbs.	\$2.95
			8	
<b>F7526G</b>	(NMM2) <b>X2D07</b>	13 $\frac{1}{2}$ x13 $\frac{1}{2}$	8 $\frac{3}{4}$	3.10
		Four in box		

## CEMENT WORKERS' TOOLS

SHAPLEIGH'S

Refined cast iron body and handle shanks cast in one piece. Black baked finish. Ground and polished faces. Natural wood handle.

**Step Trowels****For Finishing the Inside Corners of Steps**Length 6 inches. Each face  $1\frac{1}{2}$  inches wide.

Each  
**F7518G (S256) D8C5★**.....\$1.30  
 Six in box. Wt. box 6 lbs.

**Step Trowels****For Finishing the Outside Corners of Steps**Length 6 inches. Each face  $1\frac{1}{2}$  inches wide.

Each  
**F7520G (S259) D8C5★**.....\$1.30  
 Six in box. Wt. box  $6\frac{1}{4}$  lbs.

**Groovers****Two Rounded Ends**

Size  $5\frac{1}{8} \times 2\frac{3}{4}$  inches. Cuts  $\frac{1}{2}$  inch deep.  
 Rounded at both ends. With  $\frac{1}{2}$ -inch radius.

Each  
**F7512G (S250) D8C5★**.....\$1.30  
 Six in box. Wt. box  $7\frac{3}{4}$  lbs.

**Jointer****One Rounded and One Square End**

Size  $3 \times 2\frac{7}{8}$  inches. Cuts  $\frac{1}{2}$  inch deep. One  
 square end and one round end. With  $\frac{1}{2}$ -inch  
 radius.

Each  
**F7513G (S251) D8C5★**.....\$1.30  
 Six in box. Wt. box  $7\frac{1}{4}$  lbs.

**Edgers****Straight**

Size  $6 \times 2\frac{3}{4}$  inches.  $\frac{1}{2}$  inch turned edge and  
 radius.

Each  
**F7515G (S253) D8C5★**.....\$1.30  
 Six in box. Wt. box  $7\frac{1}{4}$  lbs.

**CEMENT WORKERS' TOOLS****CLINSTEEL**

Rigid cold rolled steel finished in special protective rich chrome color with close texture extra smooth clear mortised handle.

**Straight End Edgers**

Size 5x2 $\frac{3}{4}$  inches. Radius  $\frac{1}{4}$  inch. Lip depth  $\frac{1}{4}$  inch.

Each  $\Delta$  Each  
F7495G (80E) D6C7★.....\$1.00  
Six in box. Wt. box 1 lb.

**Curved End Edgers**

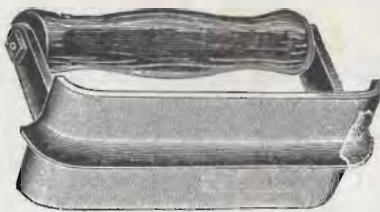
Both ends rounded to prevent digging in soft cement. Size 3x6 inches. Lip depth  $\frac{3}{8}$  inch, radius  $\frac{3}{8}$  inch.

Each  $\Delta$  Each  
F7500G (81) D5C7★.....\$0.85  
Six in box. Wt. box 1 lb.

**Jointer**

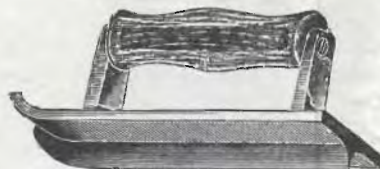
Size 3x6 inches. Depth of cut  $\frac{1}{8}$  inch, width of cut  $\frac{1}{8}$  inch.

Each  $\Delta$  Each  
F7505G (82) D5C7★.....\$0.85  
Six in box. Wt. box 8 oz.

**CEMENT WORKERS' TOOLS  
STANDARD****Groovers—Two Rounded Ends**

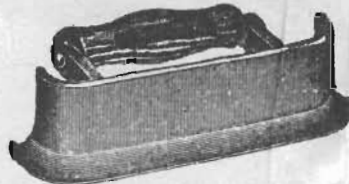
Solid cast iron. Painted green. Natural finish hardwood handle.  
Size 5 $\frac{3}{4}$ x2 $\frac{1}{2}$  inches.

Each  $\Delta$  Each  
F7501G (150) D5C5★.....\$0.85  
Six in box. Wt. box 7 lbs.

**Jointers****One Round and One Square End**

Solid cast iron. Painted green. Natural finish hardwood handles.  
Size 5 $\frac{3}{4}$ x2 $\frac{3}{4}$  inches. Cuts  $\frac{1}{2}$  inch deep

Each  $\Delta$  Each  
F7502G (151) D5C5.....\$0.85  
Six in box. Wt. box 6 $\frac{3}{8}$  lbs.

**STANDARD****Edgers—Straight**

Solid cast iron. Painted green. Natural finish hardwood handle.  
Size 6x2 $\frac{3}{4}$  inches.  $\frac{3}{8}$ -inch radius. Rounded at both ends.

Each  $\Delta$  Each  
F7503G (153) D5C5★.....\$0.85  
Six in box. Wt. box 6 lbs.

**CONCRETE TAMPERS****STANDARD**

Square Cast Iron  
With 48 $\frac{1}{2}$  inch  
Ash Handle

Each	Size inches	Wt. lbs	Each
3-T190-G	X2D95★	8x8	13 $\frac{1}{2}$ \$4.50
3-T191-G	X3D85★	10x10	18 5.75

Loose

**Extra Handles**

Wood. For cast iron tampers. Length 4 feet.

Each  $\Delta$  Each  
3-ETH-G X1D35★.....\$2.00  
Loose. Wt. each 2 $\frac{3}{4}$  lbs.

STAR ★ DENOTES BEST SELLER

**MASONS' JOINTERS****ROSE****Bull Horn**

Malleable iron,  $\frac{5}{8}$  inch. Will not rust or break.

Each  $\Delta$  Each  
F7509G (5042) X1D57★.....\$2.35  
Six in box. Wt. box 4 lbs.

**Light Convex**

Malleable iron  $\frac{3}{4}$ x $\frac{5}{8}$  inch. Will not rust or break.

Each  $\Delta$  Each  
F7510G (5121) D8C7★.....\$1.30  
Twelve in box. Wt. box 4 $\frac{1}{4}$  lbs.

**JOINT FILLERS****MARSHALLTOWN**

Forged in one piece from highest grade tool steel. Tempered and polished. Hardwood handle with polished steel ferrule. Length of blade 6 $\frac{1}{2}$  inches.

Each	Size, in.	Wt. Box, lbs.	$\Delta$ Each
F7550G (504)	X1D20★	$\frac{5}{16}$ 1 $\frac{1}{2}$	\$1.80
F7551G (505)	X1D20★	$\frac{3}{8}$ 1 $\frac{5}{8}$	1.80
F7552G (506)	X1D20★	$\frac{1}{2}$ 1 $\frac{3}{4}$	1.80
F7553G (508)	X1D20	$\frac{3}{4}$ 1 $\frac{7}{8}$	1.80

Six in box

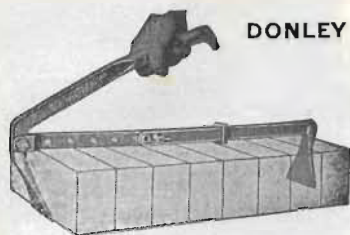
**BRICK JOINTERS****JOHNSON****Double Duty**

High grade steel,  $\frac{1}{8}$ x $\frac{1}{2}$  inch, one end flat, other end rounded. Black enameled finish, working surfaces full polished. Length 9 inches.

Each	Size, inch	Wt. Box, lbs.	Each
F7547G (195 $\frac{1}{2}$ )	D3C7★	$\frac{1}{2}$ 1	\$0.60
F7548G (195 $\frac{5}{8}$ )	D4C2★	$\frac{5}{8}$ 1 $\frac{1}{2}$	.65
F7549G (195 $\frac{3}{4}$ )	D5C0	$\frac{3}{4}$ 2 $\frac{3}{8}$	.75

Six in box

## BRICK CARRIERS OR CLAMPS



DONLEY

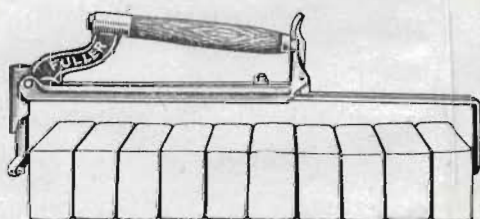
Made of malleable iron, with an opening 15 to 25 inches. Quickly adjustable by means of a thumb nut.

Handles eight or more brick at a time without defacing brick or bruising workman's hand.

Picks up and releases its load instantly.

Each  
5-D16-G X2D75★ ..... \$4.15  
Six in ctn. Wt. each 6 lbs.

## FULLER



Handy, convenient, works automatically and is easily adjusted from 6 to 10 bricks by winged nut. Perfectly balanced at either minimum or maximum load. Handles all kind of brick and building tile. Releases without extra motion or use of other hand. Strong, well made of malleable iron. Equipped with full wood handle, round in shape and non-irritating to hand.

Each  
5-F610-G X4D45 ..... \$6.95  
Six in ctn. Wt. each 6 lbs.

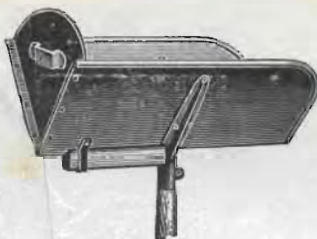
## KNEE PADS



Per Pair  
F2342K-1★ X1D47 ..... \$2.25  
Loose. Wt. pair 1½ lbs.

## MORTAR HODS

### NEVERDRIP

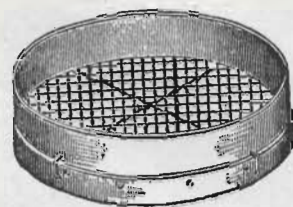


Steel

Made from water-tight sheet steel. Painted red. Edges reinforced with heavy rods. Pressed steel handle socket fork with adjustable opening and clamp bolt. Wood shoulder saddle. Hardwood handle. Size 42x1¾ inches. Size of trowel 26x12x1½ inches. Has steel strap for holding trowel or scraper for cleaning hod.

Each  
5-8-G X5D75★ ..... \$8.50  
Loose. Wt. each 11 lbs.

## RIDDLES



Grain, Sand and Moulders'

Bent hardwood rim. Diameter 18 inches. Iron wire bottom, with two cross wire braces.

Each		For	Each
7-H4-G	X1D45	Corn and Sand	\$2.15
7-H5-G	X1D45	Sand	2.15
7-H6-G	X1D45★	Sand	2.15
7-H7-G	X1D45★	Sand	2.15
7-H8-G	X1D45★	Wheat, Fine Sand	2.15
7-H10-G	X1D45★	Oats	2.15
7-H12-G	X1D45	Oats	2.15
			Loose. Wt. each 1¾ lbs.

## CANVAS TOOL BAGS



A one-piece bag, made of 12-oz. canvas. Has a heavy cardboard bottom. All sewing done on lock-stitch machine. Bottom has five steel nickel plated studs. Frame, 12 gauge steel, riveted to body of bag. Large inside pocket. Height 13 inches.

Each		Length, ins.	Width, ins.	Wt. Each, lbs.	Each
F7481G	X4D17	20	5¼	3	\$6.25
F7482G	X4D17★	22	5	3¼	6.25
Loose					

BRICKLAYERS' TOOLS

VAUGHAN

Forged steel, oil tempered. Polished finish head and cutting edge. Body finished in blue and silver.



Chisels

Used for cutting bricks to size. Offset shank and double bevel.

Width of cut 4 inches. Length 7 1/2 inches.

(VB14)

Each **F1230G X1D15★** ▲ Each \$1.70

Six in box. Wt. box 7 lbs.

Sets

Used for trimming bricks. Offset shank and single bevel.

Width of cut 4 inches. Length 7 1/2 inches.

(VB4)

Each **F1229G X1D15★** ▲ Each \$1.70

Six in box. Wt. box 7 lbs.

BRICKLAYERS' AND MASON'S TOOLS

MAYHEW



Brick Plugging Chisels

Used for removing bricks from out of walls. Forged from octagon tool steel, tempered. Black painted finish.

Each		Diam., in.	Size Point, in.	Length, ins.	Weight, lbs.	▲ Each
		(PC 3/16)				
<b>F1281G</b>	<b>D6C5★</b>	5/8	3/16	9	3 5/8	\$1.00
		(PC 1/4)				
<b>F1282G</b>	<b>D8C0★</b>	3/4	1/4	11	5 3/4	1.25

Six in box

STONE CUTTERS' AND MASONS' TOOLS

STANDARD



Points

Plain Head

Octagon tool steel. Natural finish body, point and head. Length 9 inches.

(49)

Each		Size, Steel, in.	▲ Ea
<b>F7778G</b>	<b>X1D12★</b>	3/4	\$1.

Loose. Wt. each 1 lb.



Chisels

Plain Edge—Mallet Head

Octagon tool steel. 5/8-inch natural finish body, blade and head. Length 8 inches.

Each		Width, inches	Weight Each, lb.	▲ lb.
		(134/11 1/2)		
<b>F7782G</b>	<b>X1D48★</b>	1 1/2	3/4	86
		(134/2)		
<b>F7783G</b>	<b>X1D66★</b>	2	7/8	77

Loose

STONE CUTTERS' AND MASONS' TOOLS

STANDARD



Chisels

Toothed Edge—Mallet Head

Octagon tool steel. 5/8-inch natural finish body, blade and head. Length 8 inches.

Each		Width, inches	Weight Each, lb.	▲ Each
		(135/1)		
<b>F777G</b>	<b>X1D55</b>	1	5/16	\$2.59
		(135/11 1/2)		
<b>F777G</b>	<b>X1D72★</b>	1 1/2	1 1/16	2.86
		(135/2)		
<b>F778G</b>	<b>X1D84★</b>	2	3/4	3.06

Loose



Pitching Tools

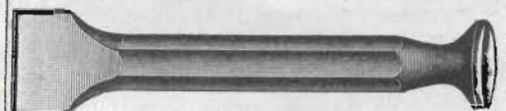
Plain Head

Octagon tool steel. 3/4-inch natural finish body, blade and head. Length 8 inches. 2-inch blade.

(133)

Each **F7780G X2D10★** ▲ Each \$3.48

Loose. Wt. each 1 3/8 lbs.



Pitching Tools

Mallet Head

Octagon tool steel. 3/4-inch natural finish body, blade and head. Length 8 inches. 2-inch blade.

(137)

Each **F7788G X2D53** ▲ Each \$4.21

Loose. Wt. each 1 1/8 lbs.



Granitoid Chisels

Plain Head

Octagon tool steel. 5/8-inch natural finish body, blade and head. Length 8 inches. 1 1/2-inch blade.

(130)

Each **F7779G X1D04★** ▲ Each \$1.73

Loose. Wt. each 3/4 lb.