

NORTON ABRASIVES

OILSTONES
ABRASIVE SPECIALTIES

BEHR-MANNING

DIVISION OF NORTON COMPANY

TROY, N. Y.

NORTON ABRASIVES

OILSTONES
ABRASIVE SPECIALTIES

Catalog No. 17

1935

BEHR-MANNING

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DIVISION OF NORTON COMPANY

Main Offices and Laboratories, Troy, N. Y.

14 Convenient Branch Offices and Warehouses

BOSTON	66 Pearl Street
BUFFALO	56-58 Pearl Street
CHICAGO	1330 South Canal Street
CINCINNATI	228 West 7th Street
CLEVELAND	1306 East 55th Street
DETROIT	5805 Lincoln Avenue
GRAND RAPIDS	64-66 Ionia Avenue, S. W.
HIGH POINT	221 West High Street
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NEW YORK	125 Barclay Street
PHILADELPHIA	4732 Stenton Avenue
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SAN FRANCISCO	1016 Howard Street
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INDIA OILSTONES

Made from Norton Alundum abrasive (aluminum oxide) by a process which produces stones unequalled by any artificial stone in speed of cut, long life, maintenance of shape and smoothness of resulting edge on tool. Factory-impregnated with oil and ready for use with slight further applications.

India Bench Stones

Unmatched for oilstoning carpenters' tools or scraper blades, lathe and planer tools in the machine shop.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1 x 1/4	\$0.50	FB14	MB14	CB14	....	12	1 1/2 lbs.
4 x 1 x 1/2	0.55	FB24	MB24	CB24	3	6	1 1/2 lbs.
4 x 1 3/4 x 1/2	0.70	FB124	MB124	.....	....	6	2 1/4 lbs.
5 x 2 x 5/8	0.85	FB35	MB35	.....	....	6	4 lbs.
6 x 1 1/2 x 1/2	0.75	FB26	MB26	.....	....	6	2 1/2 lbs.
6 x 2 x 5/8	0.95	FB36	MB36	.....	....	6	4 3/4 lbs.
6 x 2 x 1	1.15	FB6	MB6	CB6	29	6	7 1/4 lbs.
7 x 2 x 1	1.25	FB7	MB7	CB7	1 1/2	6	8 1/2 lbs.
8 x 2 x 3/4	1.35	FB48	MB48	.....	....	6	8 lbs.
8 x 2 x 1	1.50	FB8	MB8	CB8	0	6	10 lbs.

India Combination Stones

Two stones, one Coarse and one Fine grit, vitrified into one solid stone. The coarse side restores dull, rough edges rapidly. The fine side gives an extra keen edge.

SIZE IN INCHES	LIST EACH	NUMBERS	OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
4 x 1 Round	\$1.25	IB64	63	6	8 lbs.
4 x 1 3/4 x 5/8	0.85	IB134	....	6	2 1/2 lbs.
5 x 2 x 3/4	1.00	IB45	....	6	3 1/2 lbs.
6 x 2 x 1	1.25	IB6	29	6	7 1/4 lbs.
7 x 2 x 1	1.50	IB7	1 1/2	6	8 1/2 lbs.
8 x 2 x 1	1.75	IB8	0	6	10 lbs.

India Round Edge Slips

For gouges, moulder knives, bead planers, bobbin knives and all tools or knives with curved edges.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1 x 7/16 x 3/16	\$0.50	FS14	MS14	CS14	20	6	3/4 lb.
4 1/2 x 1 3/4 x 1/4 x 1/16	0.65	FS24	MS24	CS24	15	6	3/4 lb.
4 1/2 x 1 3/4 x 3/8 x 1/8	0.65	FS34	MS34	CS34	14	6	1 1/4 lbs.
4 1/2 x 1 3/4 x 1/2 x 3/16	0.65	FS44	MS44	CS44	13	6	1 3/4 lbs.
5 x 1 x 5/16 x 3/32	0.65	FS15	MS15	CS15	41	6	1/2 lb.
4 1/2 x 2 1/8 x 5/8 x 1/16	0.90	FS54	MS54	CS54	22	6	2 1/4 lbs.
6 x 2 1/4 x 3/4 x 3/8	1.15	FS66	MS66	.....	22 1/2	6	4 lbs.

For convenience order by number

CRYSTOLON OILSTONES

Made from Norton Crystolon abrasive (silicon carbide), and oil-saturated at the factory, these stones are designed for use either dry or with additional moderate applications of oil. In the latter case, they will be found very different from other stones of similar type in their slight absorption of oil because of their impregnation during manufacture.

Crystolon Bench Stones

Excellent for sharpening tools with broad, flat edges.

SIZE IN INCHES	LIST EACH	Numbers			STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE		
4 x 1 x 1/4	\$0.50	FJB14	MJB14	CJB14	12	1 1/2 lbs.
4 x 1 x 1/2	0.55	FJB24	MJB24	CJB24	6	1 1/4 lbs.
4 x 1 3/4 x 1/2	0.70	FJB124	MJB124	.....	6	2 1/4 lbs.
5 x 2 x 5/8	0.85	FJB35	MJB35	.....	6	4 lbs.
6 x 1 1/2 x 1/2	0.75	FJB26	MJB26	.....	6	2 1/2 lbs.
6 x 2 x 5/8	0.95	FJB36	MJB36	.....	6	4 3/4 lbs.
6 x 2 x 1	1.15	FJB6	MJB6	CJB6	6	7 1/4 lbs.
7 x 2 x 1	1.25	FJB7	MJB7	CJB7	6	8 1/2 lbs.
8 x 2 x 3/4	1.35	FJB48	MJB48	.....	6	8 lbs.
8 x 2 x 1	1.50	FJB8	MJB8	CJB8	6	10 lbs.



Crystolon Combination Stones

Two stones in one. Coarse side is for dull tools and fine side for a finished edge. *Vitrified* (not glued) together.

SIZE IN INCHES	LIST EACH	NUMBERS	STD. PKG.	WEIGHT STD. PKG.
4 x 1 Round	\$1.25	JB64	6	8 lbs.
4 x 1 3/4 x 5/8	0.85	JB134	6	2 1/2 lbs.
5 x 2 x 3/4	1.00	JB45	6	3 1/2 lbs.
6 x 2 x 1	1.25	JB6	6	7 1/4 lbs.
7 x 2 x 1	1.50	JB7	6	8 1/2 lbs.
8 x 2 x 1	1.75	JB8	6	10 lbs.



Crystolon Round Edge Slips

Used in woodturning plants and by carpenters and general woodworkers on gouges, knives and all tools with curved edges.

SIZE IN INCHES	LIST EACH	Numbers			STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE		
4 x 1 x 7/16 x 3/16	\$0.50	FJS14	MJS14	CJS14	6	3/4 lb.
4 1/2 x 1 3/4 x 1/4 x 1/16	0.65	FJS24	MJS24	CJS24	6	3/4 lb.
4 1/2 x 1 3/4 x 3/8 x 1/8	0.65	FJS34	MJS34	CJS34	6	1 1/4 lbs.
4 1/2 x 1 3/4 x 1/2 x 3/16	0.65	FJS44	MJS44	CJS44	6	1 1/4 lbs.
5 x 1 x 5/16 x 3/32	0.65	FJS15	MJS15	CJS15	6	1/2 lb.
4 1/2 x 2 1/8 x 5/8 x 5/16	0.90	FJS54	MJS54	CJS54	6	2 1/4 lbs.
6 x 2 1/4 x 3/4 x 3/8	1.15	FJS66	MJS66	.....	6	4 lbs.



For convenience order by number

India Square Files

Superior to metal files on die and tool work. Used for cleaning corners of dies where some stock is to be removed without scratching.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1/4	\$0.40	FF14	MF14	CF14	6	12	5 oz.
4 x 5/16	0.45	FF24	MF24	CF24	5 1/2	12	8 oz.
4 x 3/8	0.45	FF34	MF34	CF34	5	12	10 1/2 oz.
4 x 1/2	0.45	FF44	MF44	CF44	4	12	1 1/4 lbs.
6 x 3/8	0.60	FF36	MF36	CF36	30	12	1 lb.
6 x 1/2	0.60	FF46	MF46	CF46	31	12	1 7/8 lbs.
6 x 5/8	0.65	FF56	MF56	CF56	32	6	1 1/4 lbs.
6 x 3/4	0.65	FF66	MF66	CF66	33	6	1 3/4 lbs.
6 x 1	0.70	FF76	MF76	CF76	34	6	3 1/2 lbs.

India Triangular Files

For the same kind of work as square shapes but on jobs where three-cornered files can be used to better advantage.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1/4	\$0.50	FF114	MF114	CF114	9	12	2 oz.
4 x 5/16	0.55	FF124	MF124	CF124	8 1/2	12	4 oz.
4 x 3/8	0.55	FF134	MF134	CF134	8	12	5 oz.
4 x 1/2	0.55	FF144	MF144	CF144	7	12	8 oz.
6 x 3/8	0.70	FF136	MF136	CF136	...	12	8 oz.
6 x 1/2	0.70	FF146	MF146	CF146	64	12	14 oz.
6 x 5/8	0.75	FF156	MF156	CF156	65	6	10 oz.
6 x 3/4	0.75	FF166	MF166	CF166	66	6	1 lb.
6 x 1	0.80	FF176	MF176	CF176	67	6	1 1/2 lbs.

India Round Files

Widely used for lapping round holes and for stoning dies and cleaning moulds. Used also on many curved edges.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1/4	\$0.60	FF214	MF214	CF214	12	12	4 oz.
4 x 5/16	0.65	FF224	MF224	CF224	11 1/2	12	6 oz.
4 x 3/8	0.65	FF234	MF234	CF234	11	12	9 oz.
4 x 1/2	0.65	FF244	MF244	CF244	10	12	13 1/2 oz.
6 x 3/8	0.80	FF236	MF236	CF236	...	12	1 lb.
6 x 1/2	0.80	FF246	MF246	CF246	69	12	1 3/8 lbs.
6 x 5/8	0.85	FF256	MF256	CF256	70	6	1 lb.
6 x 3/4	0.85	FF266	MF266	CF266	71	6	1 1/2 lbs.
6 x 1	0.90	FF276	MF276	CF276	72	6	2 lbs.

India Half Round Files

For tools or dies having both straight and curved edges.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1/4	\$0.50	FF314	MF314	CF314	73	12	3 oz.
4 x 5/16	0.55	FF324	MF324	CF324	..	12	4 oz.
4 x 3/8	0.55	FF334	MF334	CF334	74	12	5 oz.
4 x 1/2	0.55	FF344	MF344	CF344	75	12	9 oz.

For convenience order by number

India Taper Rounds and Triangles

Convenient shapes suitable for many different purposes in machine shops, tool and die works and woodworking plants.

Taper Rounds

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1/2 x 1/4	\$0.75	FF644	MF644	CF644	58	6	5 oz.

Taper Triangles

4 x 1/2 x 1/4	0.75	FF544	MF544	CF544	57	6	3 oz.
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India Silversmiths' Stones

Also used for touching up, lapping and cleaning tools and dies in a great variety of industries.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 5/16 x 3/16 x 5/16 x 1/16	\$0.75	FF414	MF414	CF414	45	6	1 1/2 oz.
4 x 3/8 x 1/8 x 1/8 x 1/8	0.75	FF424	MF424	CF424	48	6	1 1/2 oz.
3 1/2 x 1/8 x 3/16	0.75	FF433	MF433	CF433	50	6	2 1/2 oz.
4 x 1/8 x 3/16 x 1/8	0.75	FF434	MF434	CF434	49	6	2 1/2 oz.
4 x 1/2 x 1/16	0.75	FF444	MF444	CF444	43	6	1 1/2 oz.
4 x 1/2 x 3/16 x 3/16 x 1/16	0.75	FF454	MF454	CF454	47	6	1 1/2 oz.
4 x 1/2 x 1/4 x 5/16 x 1/8	0.75	FF464	MF464	CF464	46	6	2 1/2 oz.
4 x 1/2 x 1/4 x 1/16 x 1/16	0.75	FF474	MF474	CF474	44	6	2 oz.

India Diamond File

A special shape for sewing machine feeds, geometric chasers and for cleaning out acute angles in dies and moulds.

SIZE IN INCHES	LIST EACH	Numbers			OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 9/16 x 3/16	\$0.90	FT134	MT134	CT134	26	6	2 1/2 oz.

India Point

Used by engravers and die sinkers. Its shape will suggest many other uses to die and tool makers.

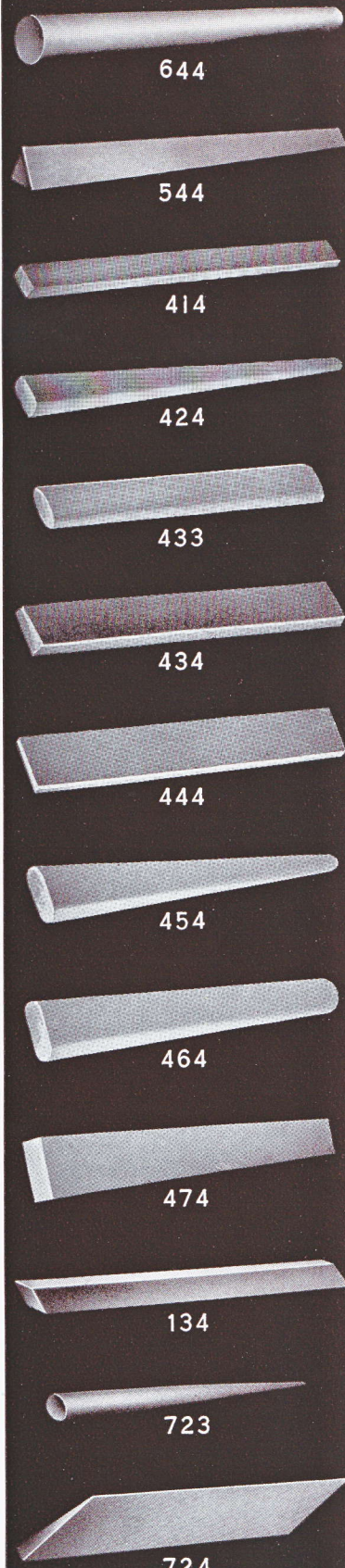
SIZE IN INCHES	LIST EACH	Numbers			OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
3 x 5/16 Base	\$0.90	FF723	MF723	CF723	27	6	1 1/2 oz.

India Knife Blade

Universally used by watch and clock makers. The fine grit is excellent for repointing draftsmen's pens.

SIZE IN INCHES	LIST EACH	Numbers			OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
4 x 1 x 1/8 Back	\$0.70	FF724	MF724	CF724	28	12	7 oz.

For convenience order by number



India Reamer Stones

Useful in machine shops for sharpening reamers and taps. Also used on rough rounders and other shoe machine tools.

SIZE IN INCHES	LIST EACH	Numbers			OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
3 1/2 x 3/4 x 3/16	\$0.50	FT123	MT123	CT123	23	12	1/2 lb.
4 1/2 x 1 x 3/16	0.55	FT124	MT124	CT124	25	12	1 1/2 lbs.
5 x 1 x 3/16	0.55	FT125	MT125	CT125	56	12	1 lb.
6 x 1 x 1/4	0.75	FT126	MT126	CT126	56 1/2	12	1 3/4 lbs.

India Carving Tool Slips

Created for producing an oilstoned finish on the special knives and tools used by carvers of wood and ivory.

SIZE IN INCHES	LIST EACH	NOS.	OLD NOS.	STD. PKG.	WEIGHT STD. PKG.
2 1/4 x 7/8 x 3/16	\$0.50	MS12	36	6	3 oz.
2 1/4 x 7/8 x 3/16	0.50	MS22	37	6	3 oz.
2 1/4 x 7/8 x 3/16	0.50	MS32	38	6	3 oz.
2 1/4 x 7/8 x 3/16	0.50	MS42	39	6	3 oz.

India Last Makers' Stone

Used by last makers and woodturners and for sharpening cutting dies in shoe and glove shops.

SIZE IN INCHES	LIST EACH	Numbers			OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
8 x 5/8 x 5/8	\$1.00	FT48	MT48	CT48	16	6	2 lbs.

India Skiving Knife Stone

Designed for removing burr from Amazeen skiving knives, but useful for other operations in various industries.

SIZE IN INCHES	LIST EACH	NO.	OLD NO.	STD. PKG.	WEIGHT STD. PKG.
4 x 1 x 1/4	\$0.65	MT34	42	12	17 oz.

India Engravers' Pencil

Medium and Fine grits mounted in a wood pencil. Used by engravers, die sinkers and for marking metals.

SIZE IN INCHES	LIST EACH	NO.	OLD NO.	STD. PKG.	WEIGHT STD. PKG.
7 Long. Stone 1/8 sq.	\$0.65	IT17	19	12	6 oz.

India Special Gouge Slip

A universal sharpener for gouges and curved cutting edges. Also used for lapping inside or outside curved surfaces.

SIZE IN INCHES	LIST EACH	NO.	OLD NO.	STD. PKG.	WEIGHT STD. PKG.
6 x 2 x 1 x 1/2 x 3/8	\$1.50	FS76	21	6	2 1/2 lbs.

For convenience order by number

India Engravers' Chuck and Points

India Chuck Points are convenient stones for cleaning out minute corners of dies where absolute accuracy is desired. Used by die sinkers, metal chasers, engravers and others. Holder is made of steel, nickel plated and knurled.

SIZE IN INCHES	LIST EACH	Numbers			STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE		
1 x 1/8	\$0.15	FT11	MT11	CT11	12	1/4 oz.
	1.00	Chuck only		XT1	1	2 oz.

India Taper Oval Plug

For mould and die work and lapping round or oval holes.

SIZE IN INCHES	LIST EACH	Numbers			OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		FINE	MEDIUM	COARSE			
6 x 7/8 x 5/16	\$1.10	FT76	MT76	CT76	51	12	1 3/4 lbs

India Auger Bit Stone

Superior to a metal file for keen edges on auger bits.

SIZE	LIST EACH	Numbers		OLD NO.	STD. PKG.	WEIGHT STD. PKG.
		MEDIUM	COARSE			
4" long	\$0.65	MT10	CT10	53	12	6 oz.

Reversible Oilstones

Two stones in one mounting with either ready for use at an instant's notice. A Coarse India on one side and a Lily White Washita or a Soft or Hard Arkansas on the other. An excellent stone for the home craftsman or mechanic who takes pride in his tool outfit.

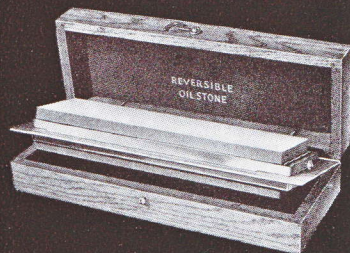
COMBINATION	SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
India-Lily White	7 x 2 x 1	\$3.50	LIB27	1	1 3/4 lbs.
India-Soft Arkansas	7 x 2 x 1	4.50	SIB27	1	1 3/4 lbs.
India-Hard Arkansas	7 x 2 x 1	6.50	HIB27	1	1 3/4 lbs.

India-Washita Oilstone

Combines in one stone the fast-cutting quality of the India with the fine finishing quality of the Washita. A favorite with cabinet makers and workers in hardwood.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
7 x 2 x 1	\$1.50	WIB7	6	8 lbs.

For convenience order by number



India Oilstone Wheels

For light grinding and lapping by watch repairers, dentists, jewelers and makers of fine tools. Made in Coarse, Medium, Fine and Extra Fine grits and Surgeons' Hone material.



DIAMETER IN INCHES	THICKNESS OF WHEELS IN INCHES					
	1/4	1/2	3/4	1	1 1/2	2
1	\$0.90	\$1.10	\$1.25	\$1.45	\$1.80	\$2.15
1 1/2	1.10	1.45	1.60	1.80	2.15	2.50
2	1.25	1.80	2.15	2.50	2.90	3.25
2 1/2	1.45	2.15	2.50	2.90	3.25	3.80
3	1.80	2.50	3.05	3.60	4.05	4.50
3 1/2	2.15	2.90	3.60	4.30	4.95	5.40
4	2.50	3.25	3.95	4.70	5.40	6.10
4 1/2	2.90	3.60	4.30	5.05	5.75	6.65
5	3.25	3.95	4.70	5.40	6.10	7.00
6	3.80	4.50	5.20	5.75	8.30	10.60
7		5.85	7.20	8.55	10.35	13.65
8		7.00	8.10	10.10	12.60	16.20
9		8.30	9.60	12.15	16.00	21.60
10		9.90	11.25	13.95	18.70	25.20
12		12.60	15.30	19.80	27.00	31.80

On special orders only—not subject to cancellation or return. Five weeks required for manufacture. Wheels of intermediate sizes take price of next larger. Extra Fine grit 50% advance. Surgeons' Hone Material 100% advance.

India Jointer Stones

For mechanical jointing devices on automatic planers. Rectangular shape, except blue print numbers illustrated.

SIZE IN INCHES	LIST EACH	NUMBERS	STD. PKG.	WEIGHT STD. PKG.
1 1/2 x 3/4 x 1/2	\$0.40	IE11	12	10 oz.
1 3/4 x 3/4 x 1/2	0.40	IE21	12	12 oz.
2 x 3/4 x 1/2	0.40	IE32	12	14 oz.
2 x 3/4 x 3/4	0.40	IE42	12	1 3/8 lbs.
2 1/2 x 3/4 x 1/4	0.50	IE52B/P3536	12	8 oz.
2 1/2 x 3/4 x 1/4	0.40	IE2	12	10 oz.
2 1/2 x 1 1/4 x 3/8	0.55	IE12	12	1 1/2 lbs.
2 3/4 x 3/4 x 3/4	0.45	IE22	12	1 3/4 lbs.
3 x 3/4 x 1/4	0.40	IE73	12	10 oz.
3 x 3/4 x 5/16	0.45	IE13	12	1 lb.
3 x 3/4 x 1/2	0.45	IE23	12	1 1/4 lbs.
3 x 3/4 x 3/4	0.45	IE33	12	2 lbs.
3 x 1 x 1/2	0.45	IE43	12	1 3/4 lbs.
3 1/2 x 1 1/4 x 3/8	0.60	IE63	12	2 lbs.
4 x 1 1/2 x 3/8	0.45	IE34	12	1 lb.
4 x 3/4 x 1/4	0.45	IE54	12	14 oz.
4 x 3/4 x 1/4	0.60	IE224B/P10411	12	14 oz.
4 x 3/4 x 5/16	0.50	IE64	12	1 1/4 lbs.
4 x 3/4 x 5/16	0.60	IE214B/P2177	12	1 7/8 lbs.
4 x 3/4 x 5/16	0.75	IE234B/P10450	12	1 7/8 lbs.
4 x 3/4 x 3/8	0.50	IE74	12	1 3/8 lbs.
4 x 3/4 x 1/2	0.50	IE84	12	1 3/4 lbs.
4 x 3/4 x 3/4	0.50	IE104	12	2 1/4 lbs.
4 x 1 x 3/8	0.50	IE124	12	1 3/4 lbs.
4 x 1 x 1/2	0.50	IE164	12	2 1/4 lbs.
4 x 1 1/4 x 3/8	0.60	IE174	12	2 1/4 lbs.
4 x 1 1/2 x 1/2	0.60	IE154	12	3 5/8 lbs.
4 x 2 1/2 x 3/4	0.85	IE184	12	8 5/8 lbs.
4 1/2 x 3/4 x 3/8	0.55	IE194	12	1 1/8 lbs.
4 1/2 x 3/4 x 3/4	1.00	IE254B/P8991	12	2 1/2 lbs.

For convenience order by number

ARKANSAS OILSTONES

A natural stone quarried in the Ozark Mountains. Gives the finest edge of any oilstone in existence either natural or artificial. Supplied in two grades, Hard and Soft.

Hard Arkansas is unequalled for sharpening the finest tools used by experts like engravers and carvers of ivory. Its unique texture makes it indispensable for sharpening surgical, dental and microtome knives.

Soft Arkansas is procured from the same source but is slightly coarser and softer. It is a favorite with pattern makers and those engaged in general woodworking.

Arkansas Bench Stones

SIZE IN INCHES ABOUT	HARD		SOFT		STD. PKG.	WEIGHT EACH
	NO.	LIST EACH	NO.	LIST EACH		
3 x 2 x 3/4-1	HB3	\$2.50	SB3	\$0.55	1	9 oz.
4 x 2 x 3/4-1	HB4	3.50	SB4	1.00	1	12 oz.
5 x 2 x 3/4-1	HB5	5.00	SB5	1.40	1	15 oz.
6 x 2 x 3/4-1	HB6	6.00	SB6	2.00	1	17 oz.
7 x 2 x 3/4-1	HB7	7.00	SB7	2.75	1	1 1/4 lbs.
8 x 2 x 3/4-1	HB8	8.00	SB8	3.50	1	1 1/2 lbs.

Arkansas Jewelers' Stones

SIZE IN INCHES	HARD		SOFT		STD. PKG.	WEIGHT EACH
	NO.	LIST EACH	NO.	LIST EACH		
4 x 2 x 3/8-1/2	HB24	\$1.25	SB24	\$0.65	1	5 oz.
5 x 2 x 3/8-1/2	HB25	2.00	SB25	1.00	1	6 oz.
6 x 2 x 3/8-1/2	HB26	2.75	SB26	1.50	1	8 oz.

Arkansas Mounted Stones

First quality stones mounted in hardwood boxes which keep the stones free from dirt and thoroughly oil-moistened.

SIZE IN INCHES	HARD		SOFT		STD. PKG.	WEIGHT EACH
	NO.	LIST EACH	NO.	LIST EACH		
3 1/2 x 1	HM3	\$1.00	SM3	\$0.65	1	4 oz.
4 x 2	HM4	2.75	SM4	1.00	1	12 oz.
5 x 2	HM5	3.50	SM5	1.60	1	17 oz.
6 x 2	HM6	4.25	SM6	2.00	1	1 1/4 lbs.
7 x 2	HM7	5.00	SM7	2.60	1	1 5/8 lbs.
8 x 2	HM8	5.75	SM8	3.00	1	1 7/8 lbs.

Arkansas Penknife Pieces

Produce the very keenest finish on pocket knives. Also used extensively by surgical instrument makers, by engravers and by tool and die makers.

SIZE IN INCHES	HARD		SOFT		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
3 x 1 x 1/4-3/8	HB13	\$0.50	SB13	\$0.20	6	3/4 lb.
4 x 1 x 1/4-3/8	HB14	0.70	SB14	0.30	6	1 lb.
5 x 1 x 1/4-3/8	HB15	1.00	SB15	0.50	6	1 1/4 lbs.

For convenience order by number



Arkansas Round Edge Slips

Produce the finest oilstoned finish on curved edges and surfaces. A necessity in woodturning plants and in making precision tools.

Regular Sizes

SIZES IN INCHES ABOUT	HARD		SOFT		STD. PKG	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
3 x 1 $\frac{3}{4}$ -2 x 1 $\frac{1}{4}$ - $\frac{3}{8}$ x 1 $\frac{1}{16}$ - $\frac{1}{8}$	HS3	\$1.00	SS3	\$0.40	3	7 $\frac{1}{2}$ oz.
4 x 1 $\frac{3}{4}$ -2 x $\frac{3}{8}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ - $\frac{3}{16}$	HS4	1.50	SS4	0.60	3	9 oz.
5 x 1 $\frac{3}{4}$ -2 x $\frac{3}{8}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ -1 $\frac{1}{4}$	HS5	2.00	SS5	1.00	3	13 $\frac{1}{2}$ oz.

Small Sizes

3 x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{3}{8}$ x 1 $\frac{1}{8}$ -Sharp	HS13	\$0.65	SS13	\$0.35	3	6 oz.
4 x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{3}{8}$ x 1 $\frac{1}{8}$ -Sharp	HS14	1.00	SS14	0.45	3	7 $\frac{1}{2}$ oz.
5 x 1 $\frac{1}{4}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{3}{8}$ x 1 $\frac{1}{8}$ -Sharp	HS15	1.25	SS15	0.60	3	9 oz.

Exact sizes 25% advance.

Hard Arkansas Files

Used where the work calls for an accurate finish. Stocked in Hard Arkansas. Soft Arkansas supplied on special orders.

Square Files

SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{3}{8}$ Asstd.	\$0.50	HF3	12	5 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$	0.50	HF13	12	4 $\frac{1}{2}$ oz.
3-3 $\frac{1}{2}$ x 1 $\frac{5}{16}$	0.50	HF23	12	5 $\frac{1}{2}$ oz.
3-3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	0.70	HF33	12	9 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	0.70	HF43	12	16 oz.

Triangular Files

3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{3}{8}$ Asstd.	\$0.50	HF103	12	3 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$	0.50	HF113	12	2 $\frac{1}{2}$ oz.
3-3 $\frac{1}{2}$ x 1 $\frac{5}{16}$	0.50	HF123	12	4 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	0.70	HF133	12	5 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	0.70	HF143	12	8 oz.

Miscellaneous Files

SIZE IN INCHES	LIST EACH	NO.	SHAPE	STD. PKG.	WEIGHT STD. PKG.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$ - $\frac{5}{16}$	\$0.60	HF813	Round	12	5 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{3}{8}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ - $\frac{3}{16}$	0.40	HF823	Flat	12	4 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{3}{8}$ -1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ - $\frac{3}{16}$	0.50	HF833	Bevel	12	4 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{3}{16}$ -1 $\frac{1}{4}$	0.60	HF843	Diamond	12	4 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{3}{16}$ -1 $\frac{1}{4}$	0.60	HF853	Oval	12	4 oz.
3-3 $\frac{1}{2}$ x 1 $\frac{1}{4}$ Base	0.60	HF863	Point	12	2 oz.
3-4 x 1 $\frac{3}{4}$ -1 x 1 $\frac{1}{8}$ -1 $\frac{1}{4}$	0.60	HF873	Knife Blade	12	10 oz.
7 Long. Stone 1 $\frac{1}{8}$ Sq.	0.75	AT17	Eng'rs Pencil	12	6 oz.

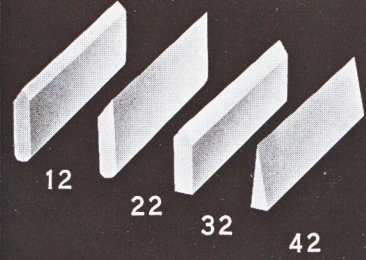
Arkansas Files should be taken in the assortments listed. Exact sizes, within dimensions shown, 25% advance. Files exactly 4" long, 50% advance. Special sizes require four weeks.

For convenience order by number

Arkansas Carving Tool Slips

A set of these slips enables a wood or ivory carver to keep all sizes and sweeps of straight and bent gouges in perfect condition.

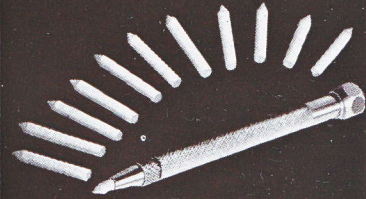
SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
2¼ x ⅞ x ⅜	\$0.50	AS12	6	3½ oz.
2¼ x ⅞ x ⅜	0.50	AS22	6	3½ oz.
2¼ x ⅞ x ⅜	0.50	AS32	6	3½ oz.
2¼ x ⅞ x ⅜	0.50	AS42	6	3½ oz.



Arkansas Engravers' Points and Chuck

Used by engravers and die sinkers to remove the last trace of burr or wire from the edges or corners of precision dies or tools.

SIZE	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
1 x ⅛"	\$0.30	AT11	12	¼ oz.
Chuck Only	1.00	XT1	1	2 oz.



Arkansas Oilstone Wheels

For putting the finest edge on surgeons' and microtome knives; for finishing hypodermic needles and for producing accurately finished dental, surgical and watchmaking tools and instruments.

HARD

DIAMETER IN INCHES	LIST EACH					
	THICKNESS OF WHEELS IN INCHES					
	¼	⅜	½	⅝	¾	1
1	\$1.20	\$1.50	\$1.80	\$2.10	\$2.40	\$3.00
1½	1.80	2.10	2.40	2.70	3.00	3.60
2	2.40	2.70	3.00	3.30	3.60	4.20
2½	3.00	3.30	3.60	3.90	4.20	5.75
3	3.60	3.90	4.20	5.00	5.70	7.25
3½	4.20	4.50	4.80	6.50	8.00	9.75
4	5.40	5.70	6.00	8.00	9.75	13.00
4½	6.90	7.20	7.80	9.75	11.25	14.50
5	8.70	9.00	9.60	11.25	13.75	19.50
6	10.80	12.00	14.40	16.80	19.50	26.00

SOFT

DIAMETER IN INCHES	LIST EACH					
	THICKNESS OF WHEELS IN INCHES					
	¼	⅜	½	⅝	¾	1
1	\$0.90	\$1.00	\$1.20	\$1.30	\$1.50	\$1.80
1½	1.20	1.30	1.50	1.60	1.80	2.10
2	1.50	1.60	1.80	1.90	2.10	2.40
2½	1.80	1.90	2.10	2.20	2.40	2.70
3	2.10	2.20	2.40	2.50	2.70	3.00
3½	2.40	2.50	2.70	2.80	3.00	3.30
4	2.70	2.80	3.00	3.10	3.30	3.60
4½	3.60	3.70	3.90	4.00	4.20	4.80
5	4.80	4.90	5.10	5.20	5.40	6.00
6	6.00	6.60	7.20	7.80	8.40	9.00

These wheels made on special order only, not subject to cancellation or return. Four weeks required for making. State diameter, thickness and size of hole wanted. Sizes between those listed take price of next larger size.



WASHITA OILSTONES

A natural stone preferred by many artisans for efficient tool sharpening. It produces smooth, long lasting edges.

Lily White Washita is the best selection. It is uniform in texture and nicely finished. The most satisfactory natural stone for carpenters' tools.

No. 1 Washita is an excellent stone not graded so carefully as the Lily White. A good, general woodworkers' stone.

Washita Bench Stones

SIZE IN INCHES ABOUT	LILY WHITE		NUMBER 1		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
4 x 2 x 3/4-1	LB4	\$0.70	NB4	\$0.50	6	4 lbs.
5 x 2 x 3/4-1	LB5	0.90	NB5	0.70	6	5 lbs.
6 x 2 x 3/4-1	LB6	1.00	NB6	0.80	6	6 lbs.
7 x 2 x 3/4-1	LB7	1.10	NB7	0.90	6	7 lbs.
8 x 2 x 3/4-1	LB8	1.35	NB8	1.15	6	8 lbs.

Washita Mounted Stones

Boxes are made of nicely finished hardwood. They are strong and durable and protect the stone from dust and dirt.

STONE SIZE IN INCHES	LILY WHITE		NUMBER 1		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
About 3 1/2 x 1	LM3	\$0.50	NM3	\$0.40	6	2 lbs.
About 4 x 2	LM4	0.85	NM4	0.65	6	4 1/2 lbs.
About 5 x 2	LM5	1.10	NM5	0.90	6	6 1/2 lbs.
About 6 x 2	LM6	1.20	NM6	1.00	6	7 lbs.
About 7 x 2	LM7	1.35	NM7	1.15	6	8 lbs.
About 8 x 2	LM8	1.60	NM8	1.40	6	9 lbs.

Washita Round Edge Slips

Give a keen edge on gouges and all curved cutting edges.

SIZE IN INCHES ABOUT	LILY WHITE		NUMBER 1		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
3 x 1 3/4-2 x 3/8-1/2 x 1/8-1/4	LS3	\$0.30	NS3	\$0.20	12	2 lbs.
4 x 1 3/4-2 x 3/8-1/2 x 1/8-1/4	LS4	0.40	NS4	0.30	12	2 1/2 lbs.
5 x 1 3/4-2 x 3/8-1/2 x 1/8-1/4	LS5	0.50	NS5	0.40	12	3 lbs.

Washita Penknife Pieces

Used to set the edges on fine cutlery and small tools.

SIZE IN INCHES ABOUT	LILY WHITE		NUMBER 1		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST EACH	NO.	LIST EACH		
3 x 1 x 1/4-3/8	LB13	\$0.15	NB13	\$0.10	12	1 3/8 lbs.
4 x 1 x 1/4-3/8	LB14	0.20	NB14	0.15	12	1 5/8 lbs.
5 x 1 x 1/4-3/8	LB15	0.25	NB15	0.20	12	2 lbs.

Special Information

Prices will be quoted promptly on special sizes of Washita Stones or Slips, Washita Wheels or Washita Cutlers' Stones.

For convenience order by number

Queer Creek Stones

A good, low-priced natural stone for carpenters' tools.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
4 x 2 x 3/4-1	\$1.80	KB4	12	3 1/2 lbs.
5 x 2 x 3/4-1	2.40	KB5	12	9 1/2 lbs.
6 x 2 x 3/4-1	3.00	KB6	12	11 1/2 lbs.
7 x 2 x 3/4-1	3.60	KB7	12	13 lbs.
8 x 2 x 3/4-1	4.20	KB8	12	15 lbs.

Queer Creek Mounted Stones

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
5 x 2	\$4.80	KM5	12	12 lbs.
6 x 2	5.40	KM6	12	13 lbs.
7 x 2	6.60	KM7	12	15 lbs.
8 x 2	7.20	KM8	12	19 lbs.

Corundum and Quickcut Stones

Each of these fabricated stones is the best in its price class. Combination type—one side coarse, the other fine.

SIZE IN INCHES	CORUNDUM		QUICKCUT		STD. PKG.	WEIGHT STD. PKG.
	NO.	LIST DOZEN	NO.	LIST DOZEN		
4 x 1 1/2 x 1/2	CPB24	\$2.40	UPB24	\$1.80	12	4 lbs.
6 x 2 x 3/4	CPB6	3.60	UPB6	3.00	12	10 lbs.
7 x 2 x 1	CPB7	4.20	UPB7	3.60	12	15 lbs.
8 x 2 x 1	CPB8	4.80	UPB8	4.20	12	17 lbs.

Fastcut Stones

A soft, fine, natural grit for use with either oil or water.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
6 x 2 x 1/2	\$3.00	FDB26	12	5 1/2 lbs.
8 x 2 x 3/4	4.20	FDB8	12	9 lbs.

Hindustan Stones

Used generally on butcher knives in packing houses.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
8 x 2 x 3/4-1 1/2	\$4.20	DB58	12	17 lbs.

Sandstone

Used on knives or tools requiring a rough, coarse edge.

SIZE IN INCHES	LIST DOZEN	NO.	KIND	STD. PKG.	WEIGHT STD. PKG.
8 x 1 3/4 Sq.	\$3.00	BS48	Large	12	24 lbs.
10 x 2 3/4 Sq.	10.20	BS910	Small Table	12	80 lbs.

For convenience order by number



MULTI-OILSTONES

Made in Two Models:

No. IM-211 Two-Stone — No. IM-313 Three-Stone

A complete sharpening service of outstanding merit for meat markets, hotels, restaurants, carpenter shops, cutlery factories, pattern and cabinet making shops.

Features—Genuine Norton Alundum and Crystolon stones, pre-filled with oil, which should not be confused with soft, dry stones which absorb oil like a sponge. Extra large size 11" x 2½" permits a full sweeping stroke. Stones are reversible thus providing use of both sides. Always in a bath of oil which prevents glazing and promotes fast, smooth sharpening. Stone in use is elevated to prevent cuts and grazed knuckles. They are self-leveling. Simply lift, turn and reset. Case finely finished with extra heavy non-skid base insuring rigidity.

Special Equipment—Arkansas and Washita oilstones for producing finer degrees of honed edges can be supplied on special orders. Prices quoted on request.

Important—Grinding alone will not produce the fine, keen edges essential in many trades and professions. Actually honed edges are necessary for the highest quality of work.

Specifications

No. IM313 List Each \$16.00
Complete with 3 stones, Fine, Medium and Coarse and can of oil.
Standard Package 1. Weight 32 lbs.

No. IM211 List Each \$12.00
Complete with 2 stones, Fine and Coarse and can of oil.
Standard Package 1. Weight 23 lbs.

Replacement Stones

SIZE IN INCHES	EACH	NO.	GRIT	STD. PKG.	WEIGHT EACH
11½ x 2½ x ½	\$2.10	IM9	Fine	1	1½ lbs.
11½ x 2½ x ½	2.10	JM6	Medium	1	1½ lbs.
11½ x 2½ x ½	2.10	JM3	Coarse	1	1½ lbs.

Multi-Oilstone Oil

Exceptionally pure, fully meeting U. S. Pharmacopoeia Specifications. Use always where knives or tools contact food products. Free flowing but with plenty of body to float particles of steel removed from the edge in honing, thus preventing glazing.

SIZE	EACH	NO.	STD. PKG.	WEIGHT
1 qt. can	\$1.00	XB12	1	2½ lbs.

For convenience order by number



Kantbreak Knife Sharpener

Makes quick work of knife sharpening. It is better than a steel—quicker and easier—a few strokes produce a keen cutting edge on carving, butcher and kitchen knives.

The sharpening material is a mixture of the best grades of abrasives to give a real cutting edge. It is reinforced by a steel rod and is protected by rubber mountings at every point where it may contact the floor when dropped.

Packed in individual cartons, twelve in a strong shipping container. One sharpener of each dozen mounted on an attractive counter display.

No. KPT2 Length 15" Overall Std. Pkg. 12 Weight 8 lbs. List Doz. \$6.00

Quickcut Knife Sharpener

An inexpensive but serviceable sharpener for kitchen and carving knives. It consists of a shaft of specially selected abrasive grains which cut quickly and produce a sharp clean cutting edge. The shaft is strengthened by a steel rod which extends its full length.

No. KPT4 Length 12 $\frac{3}{4}$ " Overall Std. Pkg. 12 Weight 4 lbs. List Doz. \$2.40

India Breaker Point Stone

Keeps the breaker points in ignition systems of all kinds of motors clean and bright. A few strokes restore the points to original factory condition. Will smooth platinum, tungsten or iridium points quickly. Both points cleaned at once, the parallel surfaces of the stone insuring perfect alignment.

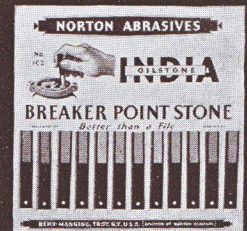
No. IC2 Size 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ " Std. Pkg. 12 Weight 15 oz. List Doz. \$3.00

Sportsman Stone

Tools for sport are doubly valuable if kept in good condition. Nothing adds more pleasure to a hunting or fishing trip than to have camp knives, axes, hatchets, gaffs and fishhooks in first class shape. The Sportsman Stone has a fast-cutting India on one side for quick jobs and a fine Washita on the other for extra keen edges. A durable leather case supplied with each stone.

No. WIP13 Size 3 x 1 $\frac{3}{8}$ x 1 $\frac{1}{2}$ " Std. Pkg. 6 Weight 1 $\frac{1}{2}$ lbs. List Doz. \$6.00

For convenience order by number



India Pocket Stone

Every man who owns a pocket knife and every woman who owns a pair of scissors should have one of these handy stones. It produces a keen cutting edge on all kinds of pocket and pen knives and makes household shears, both large and small, cut better. Also a convenient sharpener for a variety of small tools requiring finely finished edges. Made in Special Fine grit. The use of oil prevents glazing and prolongs its life.

No. FP13 Size 3 x 7/8 x 3/8" Std. Pkg. 24 Weight 3 lbs. List Doz. \$2.40

Arkansas Pocket Stone

A small but splendid natural oilstone where very fine, keen, delicate edges or points are desired. Used on manicure knives, surgeons' scalpels, dental instruments and dissecting knives. Especially valuable for repointing sewing machine needles and fishhooks. Employed extensively on all kinds of hypodermic needles. Use plenty of oil to insure keenest edges or points.

No. AP12 Size 2 x 3/4 x 1/8-1/4" Std. Pkg. 24 Weight 2 lbs. List Doz. \$2.40

Fastcut Pocket Stone

A well finished natural stone which gives extra good service on pocket knives and small tools. It has a very soft, fine grit and best results are obtained by using water. Expert whittlers and men who appreciate sharp jackknives will find this stone exceedingly useful. All boys, especially members of Boy Scout troops, will want one of these stones.

No. KP13 Size 3 1/2 x 7/8 x 1/4" Std. Pkg. 24 Weight 3 lbs. List Doz. \$1.20

Lily White Pocket Stone

Made from the best selection of Washita oilstone material. Possessing all of the excellent characteristics of that famous stone, it produces a smooth, long lasting edge on all kinds of small knives and tools. A great favorite as a fishhook sharpener. A fine companion for the India Pocket Stone.

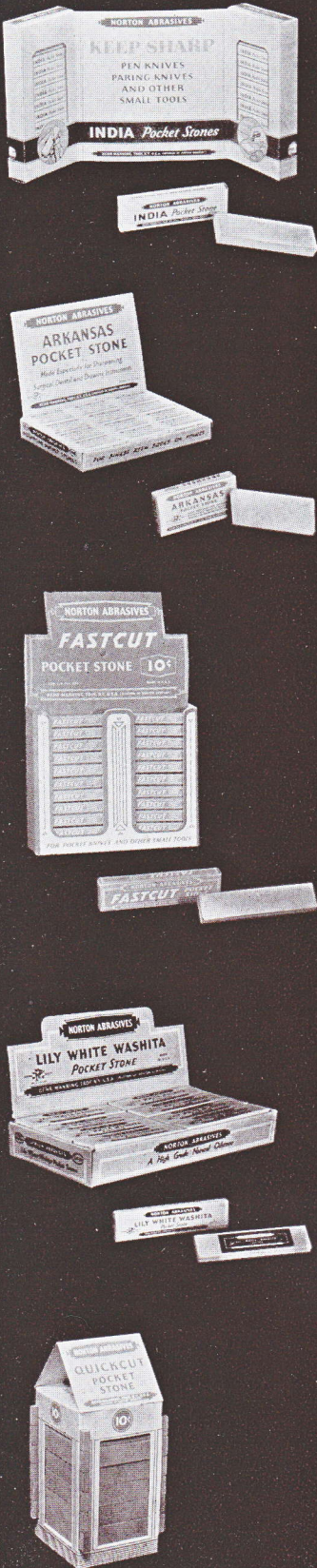
No. LP13 Size 3 1/2 x 7/8 x 1/4" Std. Pkg. 24 Weight 2 1/2 lbs. List Doz. \$1.80

Quickcut Pocket Stone

A rapid cutting fabricated stone which will give satisfaction to many users who do not require an ultra-fine edge. Because of its quick cutting it brings pocket knives or small tools to a working edge with ease and speed.

No. UPP12 Size 3 1/2 x 3/4 x 1/4" Std. Pkg. 24 Weight 2 lbs. List Doz. \$1.20

For convenience order by number



Red Head Utility File

A splendid all around sharpener for the farmer, the blacksmith and the home gardener. It is a vitrified stone made of Norton Crystolon (silicon carbide) abrasive. It cuts faster and cleaner than a metal file and will outwear it many times.

The farmer gains speedy relief from dull mower sections. The size, weight and shape are designed for a perfect job. Also, it is almost indispensable for renewing cutting edges on spades, shovels, post hole diggers and many other heavy farm tools.

The home user will find it most convenient for sharpening all sorts of garden tools and implements.

It is a handy tool for blacksmiths, machinists and garagemen on all kinds of heavy filing.

Red Head Utility Files are packed one dozen in a carton; one file of each dozen mounted on a handsome display card.

No. JD2 Size 14" Overall Std. Pkg. 12 Weight 17 lbs. List Doz. \$12.00

Crystolon General Purpose Stone

This stone will do an excellent job of sharpening on many different cutting edges. It is vitrified, made of Norton Crystolon abrasive and produces quickly a good working edge on small garden tools like trowels and sickles. Its special shape, wide in the center and tapering toward both ends, makes it very easy to use.

No. JT911 Size 9½ x 1⅜ x ½" Std. Pkg. 12 Weight 5 lbs. List Doz. \$3.60

Blacksmiths' Stone

Made from Norton Crystolon abrasive, vitrified bond. A great improvement over a steel file for sharpening butterisises and farriers' knives. Works much faster and produces a more finished edge. Its peculiar shape makes it useful for a great variety of tools. Also gives exceptional service for stoning gears.

No. JT16 Size 6 x 1⅜ x ⅜" Std. Pkg. 12 Weight 2½ lbs. List Doz. \$5.40

Bread Slicing Machine Stone

Its special design makes it of distinct value for sharpening knives in bread slicing machines. It is made of Norton Crystolon, vitrified bond, in just the right grit to produce an edge that will cut smooth, even slices without tearing or crumbling. Sharpens rapidly, saves time and increases production.

No. JT26 Size 6 x ½ x ¼" Std. Pkg. 12 Weight ¾ lb. List Doz. \$6.00

For convenience order by number



Crystolon Stone No. JT6

Operators of electric cloth cutting machines will appreciate this specially fine Vitrified Crystolon stone for keeping the knives on their machines in splendid condition. Greater production with less effort always follows the adoption of this stone. It will also be found valuable in many classes of industry where knives require a keen edge just short of an oilstoned finish.



No. JT6 Overall 10½" Stone Size 6 x ¾" Square List Doz. \$6.00
Standard Package 12 Weight 5 lbs.

Shoemakers' Stone No. JT910

The shoe rebuilder will find this stone the right grit for sharpening trimming knives. It produces a perfect edge for cutting leather and rubber with the least time and effort. Also satisfactory for general sharpening where a medium edge is desired. Made of Norton Crystolon abrasive in vitrified bond.



No. JT910 Size 10 x 1¼ x ¾" Std. Pkg. 12 Weight 8 lbs. List Doz. \$5.40

Shoemakers' Stone with Handle

Same as No. JT910 with the addition of a convenient handle which makes the stone easier to use. The handle also permits a longer stroke which means much quicker sharpening.



No. JT920 Overall 14¾" Stone size 10 x 1¼ x ¾" List Doz. \$6.00
Standard Package 12 Weight 10 lbs.

Pike Oil

This is the most satisfactory oil to prevent the glazing of oilstones. Though clear and thin, it has sufficient body to float the particles of steel removed from a tool while honing or sharpening. This prevents these minute particles being ground into the stone. Pike Oil is free from acid, is non-gumming and non-drying. It is far superior to heavy oils or grease which fill up the pores of a stone and take away its free cutting qualities.



SIZE	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3 oz. Can	\$0.30	XB1	12	5 lbs.
1 qt. Can	1.00	XB2	1	2½ lbs.
½ gal. Can	1.75	XB3	1	9 lbs.
1 gal. Can	3.00	XB4	1	13 lbs.

For convenience order by number

HARDWARE GRINDING WHEELS

For Hand or Power Grinders:

- Features:**
- Norton Alundum Abrasive (Electric Furnace)
 - Vitrified Bond—Uniform Quality
 - Cut Cool, Fast and Free
 - Unaffected by Oil or Water
 - Long Wearing—True Running
 - Lead Bushed Holes
 - Wheels over 4 inches are Blottered

Dealer Helps

Careful records show just what wheel outlets are available to the average dealer and what sizes and grits have the most general demand. On this basis two assortments have been created: The "G" assortment for the larger stores and the "GB" assortment for the smaller stores or where space is at a premium. Display Racks with bright signs, Individual Cartons for replacement wheels and Steel Bushings are furnished free to help the dealer create a profitable business with a minimum investment.

In addition to the wheels in the assortments, a list of Standard Wheels for the Hardware Trade has been created. This includes wheels for sharpening or gumming saws and for almost any general grinding operation for which the dealer might have a demand.

Improved Patented Steel Bushings

All Hardware Wheels are equipped with standard 1" lead bushings but are instantly converted to 1/4, 3/8, 1/2, 5/8, 3/4 and 7/8" arbors by inserting the correct size steel bushing (furnished free). This reduces enormously the amount of the dealer's stock investment.

Bushings are made slightly larger than the wheel hole and have straight sides which give them a full seat. They have a "tight press" fit and remain firmly in place after being seated. They are easily pressed into the arbor hole with the fingers. Supplied in pairs as follows:

"G" Assortment	76 Pairs Assorted	Free
"GB" " "	24 " "	Free
Extra Bushings	Per Pair, List Price	\$0.20

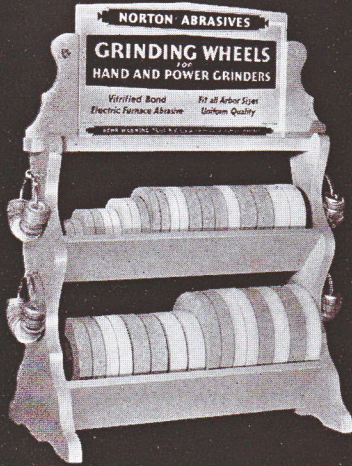
Individual Cartons

All grinding wheels for the hardware trade, up to and including 10 x 1 x 1" are packed in attractive individual cartons. This is modern merchandising which not only stimulates sales, but keeps stocks clean and in first class condition. Well displayed, they are constant reminders to customers of their wheel needs.



"G" Grinding Wheel Assortment

38 Grinding Wheels, 76 sets of Steel Bushings, 1 Display Rack and 1 Grinding Wheel Hand Book.



Contents

NUMBER	QUAN.	DIAM.	THICKNESS	HOLE	GRAIN AND GRADE	LIST EACH
GR400	1	2 1/2"	1/2"	1"	60N Coarse	\$.80
GR401	2	2 1/2"	1/2"	1"	100N Medium	1.80
GR402	2	3"	1/2"	1"	60N Coarse	1.05
GR403	2	3"	1/2"	1"	100N Medium	1.05
GR404	1	3 1/2"	1/2"	1"	60N Coarse	1.50
GR405	2	3 1/2"	1/2"	1"	100N Medium	1.50
GR406	2	4"	1/2"	1"	46N Coarse	1.70
GR407	2	4"	1/2"	1"	80N Medium	1.70
GR408	2	4"	3/4"	1"	46N Coarse	2.00
GR409	2	4"	3/4"	1"	80N Medium	2.00
GR410	2	4"	1"	1"	46N Coarse	2.35
GR411	2	4"	1"	1"	80N Medium	2.35
GR412	2	5"	3/4"	1"	46N Coarse	2.70
GR413	2	5"	3/4"	1"	80N Medium	2.70
GR414	2	5"	1"	1"	46N Coarse	3.20
GR415	2	5"	1"	1"	80N Medium	3.20
GR416	2	6"	3/4"	1"	46N Coarse	3.50
GR417	2	6"	3/4"	1"	80N Medium	3.50
GR418	2	6"	1"	1"	46N Coarse	4.10
GR419	2	6"	1"	1"	80N Medium	4.10

STEEL BUSHINGS INCLUDED:

- 6 Sets of No. XE1 for 1/4" arbor
- 6 Sets of No. XE2 for 5/16" arbor
- 20 Sets of No. XE3 for 3/8" arbor
- 20 Sets of No. XE4 for 1/2" arbor
- 12 Sets of No. XE5 for 5/8" arbor
- 6 Sets of No. XE6 for 3/4" arbor
- 6 Sets of No. XE7 for 7/8" arbor

Wood rack, Width 19 1/2", Height 23 1/2", Depth 11 1/2"
 Weight 67 1/2 lbs. complete. List Price \$88.70
 Extra Bushings, Per Set, List Price .20



"GB" Grinding Wheel Assortment

12 Grinding Wheels, 24 sets of Steel Bushings, 1 Display Rack and 1 Grinding Wheel Hand Book.

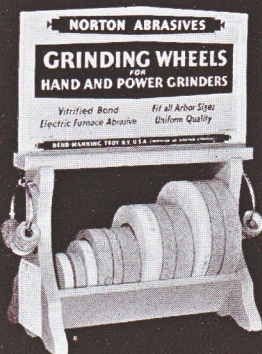
Contents

NUMBER	QUAN.	DIAM.	THICKNESS	HOLE	GRAIN AND GRADE	LIST EACH
GR402	1	3"	1/2"	1"	60N Coarse	\$1.05
GR403	1	3"	1/2"	1"	100N Medium	1.05
GR405	1	3 1/2"	1/2"	1"	100N Medium	1.30
GR406	1	4"	1/2"	1"	46N Coarse	1.70
GR408	1	4"	3/4"	1"	46N Coarse	2.00
GR410	1	4"	1"	1"	46N Coarse	2.35
GR412	1	5"	3/4"	1"	46N Coarse	2.70
GR414	1	5"	1"	1"	46N Coarse	3.20
GR415	1	5"	1"	1"	80N Medium	3.20
GR416	1	6"	3/4"	1"	46N Coarse	3.50
GR417	1	6"	3/4"	1"	80N Medium	3.50
GR418	1	6"	1"	1"	46N Coarse	4.10

STEEL BUSHINGS INCLUDED:

- 2 Sets of No. XE1 for 1/4" arbor
- 2 Sets of No. XE2 for 5/16" arbor
- 6 Sets of No. XE3 for 3/8" arbor
- 6 Sets of No. XE4 for 1/2" arbor
- 4 Sets of No. XE5 for 5/8" arbor
- 2 Sets of No. XE6 for 3/4" arbor
- 2 Sets of No. XE7 for 7/8" arbor

Wood rack, Width 14", Height 10 1/4", Depth 7 1/2"
 Weight 22 lbs. complete. List Price \$29.65
 Extra Bushings, Per Set, List Price .20



General Purpose Grinding Wheels

For garages, repair shops, the home and on the farm. Dealers may stock, in addition to their "G" or "GB" assortments, these numbers or can order special as needed.

SIZE IN INCHES	LIST EACH	NO.	GRAIN & GRADE	SIZE IN INCHES	LIST EACH	NO.	GRAIN & GRADE
2 x 1/4	\$0.65	A-37-C	150P Fine	7 x 1	\$5.15	A-412	60P Fine
	0.65	A-33-C	100P Medium		5.15	A-409	46P Medium
	0.65	A-36-C	60P Coarse		5.15	A-410	30Q Coarse
2 x 1/2	0.75	A-22-C	100N Fine	8 x 1/2	4.25	A-592	80P Fine
	0.75	A-35-V	80P Medium		4.25	A-502	60P Medium
	0.75	A-38-C	60P Coarse		4.25	A-501	46P Coarse
2 1/2 x 1/4	0.70	A-41-C	100P Fine	8 x 3/4	5.30	A-593	80P Fine
	0.70	A-40-C	80P Medium		5.30	A-506	60P Medium
	0.70	A-39-C	60P Coarse		5.30	A-504	30Q Coarse
3 x 1/4	0.90	A-77	120N Fine	8 x 1	6.25	A-514	60P Fine
	0.90	A-80	80N Medium		6.25	A-506-P	46P Medium
	0.90	A-76	60N Coarse		6.25	A-512	36Q Coarse
3 x 1/2	1.05	A-67-C	120P Fine	8 x 1 1/4	7.25	A-526-M	60M Fine
	1.05	A-52	60P Medium		7.25	A-519-M	46M Medium
	1.05	A-51	46P Coarse		7.25	A-520-M	30P Coarse
4 x 1/4	1.40	A-187	120N Fine	8 x 1 1/2	8.30	A-502-P	60M Fine
	1.40	A-186	80N Medium		8.30	A-511-M	46M Medium
	1.40	A-101-C	60N Coarse		8.30	A-568	30P Coarse
4 x 3/8	1.50	A-188	120N Fine	10 x 1/2	5.90	A-671	60P Fine
	1.50	A-189	100N Medium		5.90	A-670	46P Medium
	1.50	A-184	60N Coarse		5.90	A-683	36P Coarse
4 x 1/2	1.70	A-190	120P Fine	10 x 3/4	7.45	A-674	60P Fine
	1.70	A-189	80P Medium		7.45	A-673	46P Medium
	1.70	A-103	46P Coarse		7.45	A-672	30Q Coarse
4 x 3/4	2.00	A-152-M	100M Fine	10 x 1	9.00	A-604	60P Fine
	2.00	A-135	60P Medium		9.00	A-603	46P Medium
	2.00	A-113	46P Coarse		9.00	A-602	30Q Coarse
4 x 1	2.35	A-192	100M Fine	10 x 1 1/4	10.50	A-607	60P Fine
	2.35	A-191	60P Medium		10.50	A-606	46P Medium
	2.35	A-152-V	46P Coarse		10.50	A-605	24Q Coarse
5 x 3/4	2.70	A-254	80P Fine	10 x 1 1/2	12.25	A-613	60P Fine
	2.70	A-212	60P Medium		12.25	A-607-M	46P Medium
	2.70	A-203	46P Coarse		12.25	A-611	24Q Coarse
5 x 1	3.20	A-233-P	80M Fine	10 x 2	15.75	A-670-M	60N Fine
	3.20	A-217	60O Medium		15.75	A-677	46O Medium
	3.20	A-218	46P Coarse		15.75	A-646	24P Coarse
6 x 1/4	2.30	A-325-C	100M Fine	12 x 3/4	9.35	A-734	60N Fine
	2.30	A-319-M	60M Medium		9.35	A-726	46O Medium
	2.30	A-303-C	46M Coarse		9.35	A-725	30Q Coarse
6 x 1/2	2.90	A-332	100M Fine	12 x 1	11.50	A-702	60P Fine
	2.90	A-345	60M Medium		11.50	A-701	36P Medium
	2.90	A-376	46M Coarse		11.50	A-700	24Q Coarse
6 x 3/4	3.50	A-329-M	100M Fine	12 x 1 1/4	13.75	A-736	60N Fine
	3.50	A-308	60P Medium		13.75	A-727	46O Medium
	3.50	A-307	46P Coarse		13.75	A-735	24P Coarse
6 x 1	4.10	A-326-C	100M Fine	12 x 1 1/2	15.75	A-737	60N Fine
	4.10	A-318	60P Medium		15.75	A-720-M	36P Medium
	4.10	A-313-M	46M Coarse		15.75	A-710-M	24P Coarse
7 x 3/4	4.30	A-405-M	80M Fine	12 x 2	20.00	A-706	60P Fine
	4.30	A-405	60P Medium		20.00	A-711	36P Medium
	4.30	A-404	46P Coarse		20.00	A-704	24Q Coarse

Important. Above wheels supplied with standard one-inch arbor holes. If other hole size is required be sure to specify on order.

For convenience order by number



Saw Gumming Wheels

These wheels cut fast, cool and clean, producing sharp, smooth teeth.

Wheel Shapes—Round Face is standard. If Bevel Face is wanted, specify on order.

Grain and Grade—Specification in list is recommended for saw gumming. Other grains and grades supplied on special order.

Arbor Size—Unless otherwise specified, wheels listed will be supplied with 1" arbor hole.

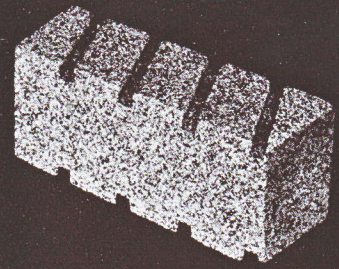
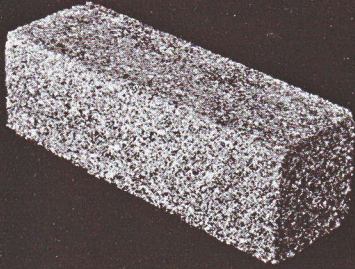


NUMBER	DIAM.	THICKNESS	ARBOR HOLE	GRAIN AND GRADE	LIST EACH
GR62	6"	1/4"	1"	46M	\$2.30
GR63	6"	3/8"	1"	46M	2.60
GR64	6"	1/2"	1"	46M	2.90
GR82	8"	1/4"	1"	46M	3.25
GR83	8"	3/8"	1"	46M	3.75
GR84	8"	1/2"	1"	46M	4.25
GR102	10"	1/4"	1"	46M	4.30
GR103	10"	3/8"	1"	46M	5.15
GR104	10"	1/2"	1"	46M	5.90
GR105	10"	5/8"	1"	46M	6.70
GR106	10"	3/4"	1"	46M	7.45
GR122	12"	1/4"	1"	46M	5.50
GR123	12"	3/8"	1"	46M	6.20
GR124	12"	1/2"	1"	46M	7.25
GR125	12"	5/8"	1"	46M	8.25
GR126	12"	3/4"	1"	46M	9.35

Crystolon Rubbing Bricks

Plain—Used for dressing grinding wheels, cleaning and scouring castings and other machine shop work.

Fluted—Used by concrete workers in removing mould marks and other rubbing down work. The diagonal flutes give a shearing and fast cutting action and serve to carry away the material removed. Bricks listed below are made in Grain 3720 and Grades R or S. Other grains and grades are supplied on special order.



PLAIN BRICKS				FLUTED BRICKS							
SIZE	LIST EACH	NUMBER	WEIGHT EACH	SIZE	LIST EACH	NUMBER	WEIGHT EACH				
4 x 2 x 1	\$0.55	BP14	3/4 lbs.	4 x 2 x 2	\$0.85	BF 24	1 1/2 lbs.				
4 x 2 x 2	.85	BP24	1 1/2 lbs.								
4 x 3 x 2	1.10	BP34	2 1/4 lbs.								
6 x 2 x 1/2	.65	BP6	5/8 lbs.	6 x 2 x 2	1.10	BF 26	2 1/2 lbs.				
6 x 2 x 1	.70	BP16	1 1/4 lbs.								
6 x 2 x 2	1.10	BP26	2 1/2 lbs.								
6 x 3 x 2	1.50	BP36	3 1/2 lbs.								
6 x 3 x 3	2.15	BP46	5 lbs.								
8 x 2 x 1	.85	BP18	1 1/2 lbs.					8 x 2 x 2	1.40	BF 28	4 lbs.
8 x 2 x 2	1.40	BP28	4 lbs.								
8 x 3 x 2	1.90	BP38	4 1/2 lbs.								
8 x 3 x 3	2.80	BP48	6 3/4 lbs.								
8 x 4 x 2	2.50	BP58	6 lbs.	8 x 3 x 3	2.80	BF 48	6 3/4 lbs.				
8 x 4 x 4	4.90	BP78	12 lbs.								

For convenience order by number

TOOL GRINDERS

Handy Andy Tool Grinders

Efficient machines especially adapted for light grinding around the shop, home or garage. Sturdily built and smooth running. Norton vitrified wheels, fast and cool cutting, are supplied. Equipped with standard tool rest, extra strong crank arm and positive acting clamp screw. Made in four sizes as follows:

WHEEL SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
4 x 1	\$2.50	RD1	1	4 lbs.
5 x 1	3.00	RD2	1	5 lbs.
6 x 1	5.25	RD3	1	11 lbs.
7 x 1	5.75	RD4	1	12 lbs.

Peerless Tool Grinder

Most efficient and durable, combining high speed and great power in just the right proportion to give best results. Equipped with patented tool rest and bevel guide, extra strong one-piece crank handle and Norton vitrified grinding wheel.

WHEEL SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
6 x 1¼	\$12.00	RH9	1	16 lbs.

Whirlwind Tool Grinder

Great speed and power make this grinder suitable for the heavy, hard, accurate and quick grinding necessary on railway construction jobs, quarrying, mining, contracting and building and similar work. Compound gear construction develops a periphery speed of 5000 feet per minute.

WHEEL SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
8 x 1¼	\$18.00	RH12	1	24 lbs.

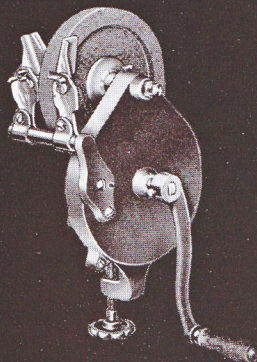
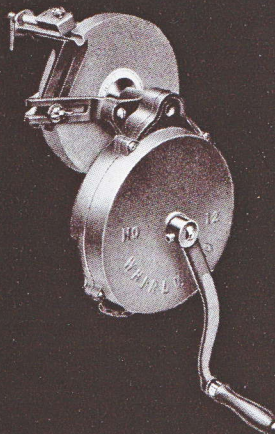
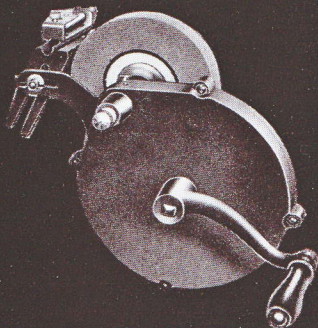
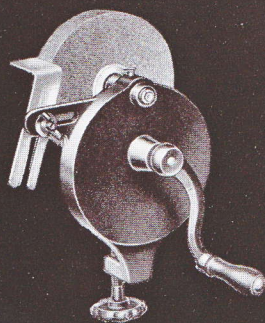
Bevelrite Grinder

Grinding is performed on the Bevelrite principle—an arrangement of patented bevel guides in conjunction with a beveled grinding wheel—which produces correct bevels on the edges of knives and shears. Especially suitable for use in meat markets, hotels and restaurants. Carpenters and cabinet makers will also appreciate the unvarying angles that can be secured. Does excellent work on heavy shears and tin snips. A small extra guide is supplied for household scissors.

WHEEL SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
6 x 1	\$10.00	RH21	1	12 lbs.

For replacement wheels see Grinding Wheels on Page 23.

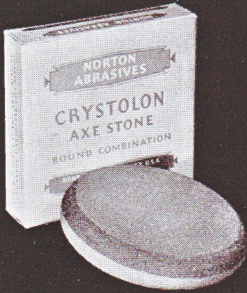
For convenience order by number



AXE STONES

Crystolon Round Axe Stone

A combination stone made of Norton electric furnace abrasive, Crystolon. Coarse grit on one side for rapid cutting and fine grit on the other for a keen, finished edge. An extremely popular stone among lumbermen and wood choppers. The rounded edges are a very distinct advantage. Each stone packed in an attractive individual carton.



SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3 Diam. $\frac{5}{8}$ Thick	\$0.60	JT3	6	2 $\frac{1}{2}$ lbs.

Queer Creek Round Axe Stone

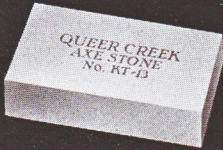
A natural stone which gives a keen, long lasting edge. Best results are obtained when used with water. Experienced wood choppers use this convenient circular stone. It can also be used with oil for carpenters' tools. Each stone in folding carton.



SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3 Diam. $\frac{5}{8}$ Thick	\$0.25	KT33	12	4 $\frac{3}{8}$ lbs.

Queer Creek Axe Stone

A natural stone in rectangular shape. Produces a very keen edge. Its low price and exceptional quality make it an outstanding number.



SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3 x 2 x $\frac{5}{8}$	\$0.10	KT13	24	7 lbs.

Special Hindostan Axe Stone

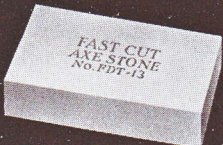
You will always find a Hindostan Axe Stone in the professional wood chopper's kit. Gives a beautiful edge when used with water.



SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{1}{2}$	\$0.10	DT12	24	4 lbs.

Fastcut Axe Stone

A superior selection of Hindostan Stone in handy rectangular shape. Has excellent cutting grit giving a fine, sharp cutting edge.



SIZE IN INCHES	EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
3 x 2 x $\frac{5}{8}$	\$0.15	FDT13	24	7 lbs.

For convenience order by number

SCYTHESTONES

Crystolon Scythestones

Made from Norton's fast cutting electric furnace abrasive Crystolon. Carefully graded and bonded and vitrified in immense kilns. Rapid cutting stones, producing a sharp edge with little effort. Time-saving sharpeners for scythes and other farm and garden tools and knives. Three shapes and weights.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
10 x 1 x 5/8	\$3.00	TJ2	6 dozen	30 lbs.
10 x 1 1/4 x 3/4	3.60	TJ3	6 "	55 lbs.
12 x 1 1/4 x 3/4	4.20	TJ4	6 "	55 lbs.

Alundum Scythestones

Made from the same electric furnace material that has made India Oilstones world famous—Norton Alundum abrasive. Fast cutting and extra long wearing. Give excellent satisfaction on all kinds of scythes especially the heaviest types. Produce good edges on farm tools and kitchen cutlery. Choice of two shapes and weights.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
10 x 1 5/8 x 3/4	\$3.00	TD1	6 dozen	55 lbs.
10 x 1 1/8 x 1/2	2.40	TD2	6 "	40 lbs.

Black Diamond Scythestones

A favorite of skilled mowers where an extremely keen edge is desired for cutting fine, tough grass. Give a great edge for late season mowing. Also splendid for butchers' knives as well as kitchen and carving knives. Flat octagon in shape.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1 1/4 x 1/2	\$3.00	TL4	6 dozen	54 lbs.

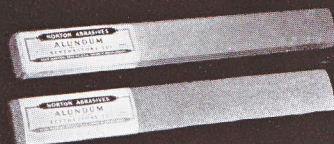
Indian Pond Scythestones

This is the original "Red End" scythestone known and sold all over the world. Made from the same New Hampshire grit that has been popular among mowers everywhere since 1823. Flat-oval in shape, they give beautiful edges with remarkable freedom from glazing. Also efficient for kitchen cutlery.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1 1/4 x 1/2	\$2.40	TL2	6 dozen	54 lbs.

All scythestones on this page are packed in modern, trade-compelling counter displays containing one dozen stones.

For convenience order by number



Granger Scythestones

Formed under hydraulic presses from selected abrasives and baked in electric ovens. Steel rod adds strength.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
10 x 1¼ x ¾	\$1.20	TS4	6 dozen	48 lbs.

Western Red End Scythestones

A natural stone made from "grindstone" grit. Popular where grass grows rankly with coarse, heavy stalks. Have flat surfaces with square edges.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1¼ x ¾	\$1.80	TN13	6 dozen	60 lbs.

Green Mountain Scythestones

Made for the user who prefers a stone of rather light weight. They are round-oval in shape, have sharp grit and give a fine edge. Useful sharpeners for household knives.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1¼ x ½	\$1.80	TL10	6 dozen	60 lbs.

Quickcut Scythestones

Moulded stones made from electric furnace abrasive. Strengthened by steel rod in center. Also good all around sharpeners for home and garden knives and tools.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
10 x 1¼ x ¾	\$1.80	TS2	6 dozen	50 lbs.

Crescent Scythestones

Oval stones made from "grindstone" grit. Give rather coarse, sharp edges suitable for mowing rank, heavy grass.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1¼ x ¾	\$2.40	TN12	6 dozen	65 lbs.

All above stones packed one dozen in plain cartons.

For convenience order by number

White Mountain Scythestones

Made from the old original White Mountain grit favored the world over. Also produce very keen edges on many kinds of knives. Packed in plain cartons containing one dozen.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
About 10 x 1 $\frac{1}{4}$ x $\frac{5}{8}$	\$2.40	TL3	6 dozen	65 lbs.

Sir Pike English Rounds

Heavy natural stones made from coarse sandstone. Used by English gardeners and farmers who prefer extra heavy stones.

SIZE IN INCHES	LIST PER 100	NOS.	STD. PKG. WOOD BOX	WEIGHT STD. PKG.
About 12 x 1 $\frac{5}{8}$	\$35.00	TN14	25 only	50 lbs.
About 9 $\frac{1}{2}$ x 1 $\frac{5}{8}$	30.00	TN15	25 only	40 lbs.

Arrow Darby Scythestones

Natural stones made in heavy weight from coarse sandstone grit which gives a rough fast-cutting edge.

SIZE IN INCHES	LIST PER 100	NO.	STD. PKG. WOOD BOX	WEIGHT STD. PKG.
About 9 $\frac{1}{2}$ x 1 $\frac{5}{8}$ x 1 $\frac{1}{4}$	\$25.00	TN16	25 only	45 lbs.

Scythe Rifles

Made from a good selection of abrasive grain securely affixed to kiln dried wood handles. One dozen in plain carton.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
12 $\frac{3}{4}$ x 1 $\frac{1}{4}$ x $\frac{5}{8}$	\$3.00	TS3	6 dozen	30 lbs.

Crystolon General Purpose Stones

Farmers, Gardeners and Mechanics find many uses for these fast cutting stones of Norton's electric furnace abrasive Crystolon.

SIZE IN INCHES	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
9 $\frac{1}{2}$ x 1 $\frac{3}{8}$ x $\frac{1}{2}$	\$3.60	JT911	1 dozen	5 lbs.

Red Head Utility File

Faster and better than a steel file for sharpening mower sections, spades and other farm and garden tools. (Full description on page 19.)

SIZE	LIST DOZEN	NO.	STD. PKG.	WEIGHT STD. PKG.
14" Overall	\$12.00	JD2	1 dozen	17 lbs.

For convenience order by number



Scythestone Assortments

Stones in these assortments have been selected to meet the requirements of a great variety of users. Customers have a choice of the stones best suited to the kind of grass to be mowed. Assortment "A" is of extra value for large general stores in the midst of extensive farming communities. The smaller assortments "B", "C" and "D" are designed for hardware and general store trade everywhere.



- Assortment "A" 12—Green Mountain
 12—Indian Pond
 12—Quickcut
 6—Western Red End
 12—White Mountain
 12—Black Diamond
 6—Alundum No. TD1

SHIPPING CASE	LIST PRICE	NO.	WEIGHT ABOUT
12¼ x 11½ x 10½"	\$13.80	TA1	63 lbs.

- Assortment "B" 9—Crescent
 9—Quickcut
 9—Black Diamond
 9—Green Mountain

SHIPPING CASE	LIST PRICE	NO.	WEIGHT ABOUT
12½ x 7¾ x 7"	\$6.75	TA2	25 lbs.

- Assortment "C" 9—White Mountain
 9—Quickcut
 9—Granger
 9—Crescent

SHIPPING CASE	LIST PRICE	NO.	WEIGHT ABOUT
12½ x 7¾ x 7"	\$5.85	TA3	25 lbs.

- Assortment "D" 9—Green Mountain
 9—Granger
 9—Western Red End
 9—Crescent

SHIPPING CASE	LIST PRICE	NO.	WEIGHT ABOUT
12½ x 7¾ x 7"	\$5.40	TA4	25 lbs.

For convenience order by number

Alundum and Crystolon Grain

These Norton electric furnace abrasives when mixed with oil, vaseline or water are ideal for grinding valves, sharpening lawn mowers and other lapping and grinding work. When coated on polishing wheels they will far out-cut and out-last emery. The home craftsman will find them suitable for polishing metal parts prior to plating. Also useful in Repair Shops, Automotive Service Stations and Garages.

Alundum Grain (Aluminum Oxide)

STANDARD SCREENED SIZES—4, 6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, 240.
 UNCLASSIFIED FLOURS—F, 2F, 3F, 4F, XF.
 CLASSIFIED FLOURS—280, 320, 400, 500, 600.

QUANTITY	SIZES	SIZES	SIZES	SIZE
	4-240 INCLUSIVE	F, 2F, 3F 4F, XF	280, 320 400, 500	600
1 lb. Cans, Per Can	\$0.40	\$0.45	\$0.50	\$0.80
5 lb. Cans, Per Can	1.25	1.50	2.00	3.25
10 lb. Cans, Per Can	1.80	2.00	3.10	4.80

Crystolon Grain (Silicon Carbide)

STANDARD SCREENED SIZES—8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, 240.
 UNCLASSIFIED FLOURS—F, 2F, 3F, 4F, XF.
 CLASSIFIED FLOURS—280, 320, 400, 500, 600.

QUANTITY	SIZES	SIZES	SIZES	SIZE
	8-240 INCLUSIVE	F, 2F, 3F 4F, XF	280, 320 400, 500	600
1 lb. Cans, Per Can	\$0.50	\$0.50	\$0.60	\$0.90
5 lb. Cans, Per Can	1.75	1.75	2.50	4.00
10 lb. Cans, Per Can	2.50	2.50	3.50	5.50

Lapowers

Crushed natural oilstone rock for use where high polish or finish without scratching is required. Can be used without danger of charging or loading the work. Used by watch factories, gear manufacturers and in the making of automobile parts.

Supplied in two qualities: Silkite for lapping softer metals like gold, silver, brass, copper and bronze; and Velvite for harder metals like nickel and high carbon steel.

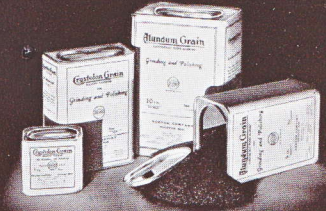
Silkite Lapowder

SIZE	LIST PER LB.	NO.	STD. PKG.
0	\$0.35	XS10	10 lb. cans
1	0.30	XS1	10 lb. cans 10 lb. cans

Velvite Lapowder

SIZE	LIST PER LB.	NO.
00	\$0.35	XV20
0	0.30	XV10
1	0.25	XV1

Also shipped in bulk in 50 lb. quantities and over. See Discount Sheet.



Granite Razor Hone

Made from an excellent selection of abrasive material and is superior to many competing hones selling at a higher price.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5¼ x 2 x ½	\$0.25	VR14	6	2½ lbs.

Koenig Razor Hone

This hone has a soft, velvety grit and produces a beautiful edge. Made from finest material by a process which insures absolute uniformity. A superior hone for the amateur user.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5¼ x 2 x ½	\$0.35	VR3	6	3 lbs.

Trojan Razor Hone

Possesses all the good qualities of the old-time Swaty. Improves with age and use. Can be used dry or with oil or lather, imparting a wonderful edge in either case. While designed for barbers it gives pleasure to many private users.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5¼ x 2 x ½	\$0.40	VR16	6	3 lbs.

Combination Hone

This hone is actually two hones in one. The dark surface is rapid cutting to be used on dull razors. The other surface is finer and slower cutting, giving a keen, smooth edge. Neither surface gives a harsh, wiry edge. A nice article for the private user.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5¼ x 2 x ½	\$0.50	VR9	6	3 lbs.

Ezy Edge Razor Hone

One of the first fabricated hones made in America, it has been popular both with professional and private users for many years. Made by a process which assures absolute evenness of grit from surface to surface. The longer it is used the better it becomes.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5¼ x 2 x ½	\$0.50	VR2	6	3 lbs.

For convenience order by number

Strop-Hone

Makes honing and stropping easy for every man. It has two sides—one a hone, the other a strop. The hone may be used dry—no water, oil or lather required. The strop is held taut and cannot sag and round the razor's edge. A few strokes on the hone every morning followed by a few on the strop will suffice. A safety blade holder is included with each outfit.

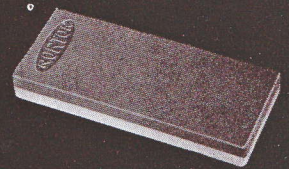
SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5 $\frac{3}{4}$ x 2 x 5 $\frac{1}{8}$	\$1.00	VR4	6	4 $\frac{1}{2}$ lbs.



Norton Razor Hone

The perfect barbers' hone. The black surface produces a keen, lasting edge. The red surface is used only when razors are in bad condition. May be used dry or with lather. No matter how tough the beard, a soft, easy shave, free from burning or smarting is assured.

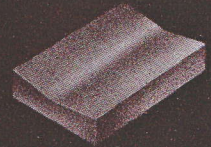
SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5 x 2 x 5 $\frac{1}{8}$	\$3.00	VR18	6	4 lbs.



Safety Blade Hone

Only the finest material used in this hone. The V-shape is far superior to rounded patterns as both edges of a blade make contact at the correct angle. Simply set blade on V-shaped groove and give several rotating strokes. Turn blade over and repeat.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
2 $\frac{1}{2}$ x 1 $\frac{3}{4}$	\$0.25	VS1	6	1 $\frac{1}{4}$ lbs.



Safety Blade Holder

Either single or double edge safety razor blades can be stropped or honed in the good old-fashioned way by means of this holder. It will appeal to the man who shaves himself, as it assures clean, comfortable shaves and prolongs the life of the blades indefinitely.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
5 $\frac{3}{4}$ long	\$0.50	XT35	6	12 oz.

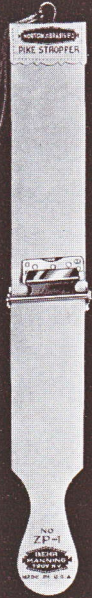
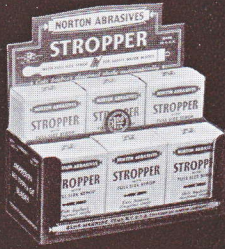


For convenience order by number

Safety Blade Stropper

This stropping device is mechanically simple yet positive in action. With the aid of an auxiliary holder one model takes care of all popular blades. The permanent holder accommodates blades with heavy backs. The auxiliary holder is used for thin, single or double edged blades. An exclusive, patented feature gives the true barbers' diagonal stroke.

A full-sized Newshell strop which is removable and can be used for straight razors is an exceptional feature. Newshell aligns the microscopic teeth of the razor's edge quicker and better than any other leather.



STROP SIZE	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
16 x 2 1/8"	\$1.00	ZP1	6	2 lbs.

Newshell Safety Razor Strop No. ZN81

This strop is made double-sided for both honing and stropping. The honing side is filled with cool cutting hone material which brings a dull blade to an edge rapidly. The stropping side is of the finest Newshell, which assures easy shaves, free from pull or drag. A safety blade holder is supplied with each strop. The holder is carried in a convenient pocket in the handle.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
22 1/2 x 2	\$1.00	ZN81	6	2 lbs.

For extra blade holders see page 33.

Newshell Safety Razor Strop No. ZN10

The finest replacement strop yet created for the auto strop razor. No seconds or scrap leather are used in its manufacture. Both sides can be used to advantage. The reverse side is filled with a smooth cutting abrasive which sharpens the dullest blade quickly. The face side is finished to produce a real shaving edge.

SIZE IN INCHES	LIST EACH	NO.	STD. PKG.	WEIGHT STD. PKG.
16 x 1 1/2	\$0.35	ZN10	12	1 1/2 lbs.

Razor Strop Dressing

Not illustrated.

A combination of animal oils, fats and greases which gives new life to all stropping leathers. When worked into the surface it restores the flexibility of the hardest leather.

NO.	PRICE EACH	STD. PKG.	WEIGHT STD. PKG.
XD	\$0.25	12	1/2 lb.

For convenience order by number

Behr-Manning Flint Paper

Mohawk: Sheets $8\frac{3}{4} \times 10\frac{1}{2}$ ". Numbers 3/0 to 3, inclusive.

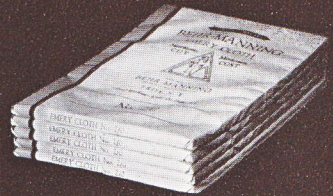
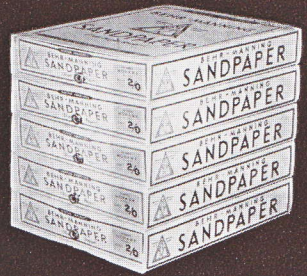
Troy: Sheets 9×11 ". Numbers 4/0 to $3\frac{1}{2}$, inclusive.

10 Improved NEATPAK boxes of a single grit number are packed to a carton.

An assorted carton contains 8 boxes—one of each grit number from 2/0 to 3 inclusive.

Mohawk Flint Paper, because of its strong, pliable backing and first grade American flint grain is of special value to carpenters, painters and decorators.

Troy Flint Paper, is a 9×11 " sheet of the same high quality for those who prefer the larger size.



IN NEATPAK BOXES

LIST PRICES per BOX

IN WIRED BUNDLES

LIST PRICES per REAM

GRIT NOS.	IN NEATPAK BOXES		SHEETS PER BOX	IN WIRED BUNDLES		
	MOHAWK $8\frac{3}{4} \times 10\frac{1}{2}$ "	TROY 9×11 "		MOHAWK $8\frac{3}{4} \times 10\frac{1}{2}$ "	TROY 9×11 "	REAMS PER BUNDLE
*4/0-0	\$1.40	\$1.55	100	\$6.75	\$7.50	5
$\frac{1}{2}$	1.50	1.65	100	7.20	7.95	4
1	1.25	1.40	75	8.10	9.00	$3\frac{1}{2}$
$1\frac{1}{2}$	.95	1.10	50	9.15	10.50	3
2	1.10	1.25	50	10.35	12.15	2
$2\frac{1}{2}$	1.20	1.45	50	11.70	13.95	2
3	.70	.85	25	13.20	15.90	$1\frac{1}{2}$
$3\frac{1}{2}$		.95	25		17.85	
Asst. Carton	9.50	10.80				
Asst. Ream				9.15	10.50	

*4/0 Supplied in 9×11 " size only.

Behr-Manning Emery Cloth

The standard machinists' smoothing and polishing cloth.

LIST PRICES—Sheets $9'' \times 11''$

GRIT NOS.	PER REAM		PER QUIRE	
	PER REAM	$\frac{1}{2}$ REAM	PER REAM	PER QUIRE
3/0 to 0	\$30.00	\$15.00	\$15.00	\$1.50
$\frac{1}{2}$	31.20	15.60	15.60	1.56
1	32.75	16.38	16.38	1.64
$1\frac{1}{2}$	34.30	17.15	17.15	1.72
2	36.50	18.25	18.25	1.83
$2\frac{1}{2}$	39.40	19.70	19.70	1.97
3	42.50	21.25	21.25	2.13
Asst. Ream	33.25			
Crocus Cloth	30.00	15.00	15.00	1.50

Handy Packages

Flint Paper

Emery Cloth

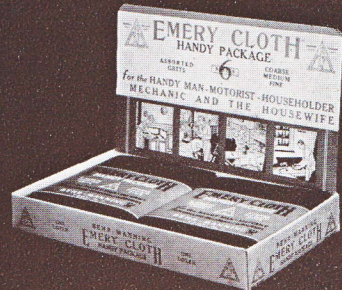
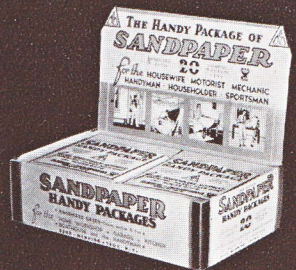
To take care of over-the-counter sales with a minimum of stock and time.

Flint package contains 20 sheets $4\frac{3}{8} \times 5\frac{1}{4}$ " in assorted grits.

Emery package contains 6 sheets $4\frac{1}{2} \times 5\frac{1}{2}$ " in assorted grits.

LIST PRICES FLINT or EMERY HANDY PACKAGES

Per Gross \$9.60 Per Dozen \$0.80



LIGHTNING Metalite Cloth

ELECTRO COATED. Abrasive grains set pointed end up and evenly spaced. Far superior to Emery Cloth.

LIST PRICES—Sheets 9 x 11"

GRIT NOS.	PER REAM	PER 1/2 REAM	PER QUIRE
320-240-180 } 150-120-100 }	\$54.70	\$27.35	\$2.74
80	58.10	29.05	2.91
60	63.10	31.55	3.16
50	67.60	33.80	3.38
40	72.70	36.35	3.64
36	78.40	39.20	3.92



LIGHTNING Metalite Cloth in Handy Rolls

The most convenient and economical form for home and shop.

LIST PRICES—Per Roll of 50 yards

WEIGHT	GRIT NUMBERS							
	320 TO 100	80	60	50	40	36	30	24
1"	\$2.90	\$3.00	\$3.25	\$3.40	\$3.60	\$3.85	\$4.05	\$4.30
1 1/2"	4.05	4.20	4.50	4.80	5.10	5.45	5.75	6.10
2"	5.15	5.40	5.80	6.15	6.55	7.00	7.45	7.95



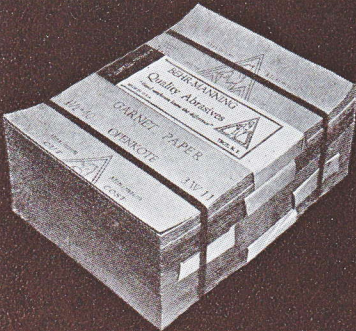
Garnet Papers

Finishing Paper 8/0 to 0. Cabinet Paper 4/0 to 2.

Both ideal Homecraft items suited to hand sanding of fine furniture and cabinet work. Cabinet Paper is on heavier weight backing than the lighter, flexible Finishing Paper.

LIST PRICES—Sheets 9 x 11"

GRIT NOS.	PER REAM	PER 1/2 REAM	PER QUIRE
8/0 to 2/0	\$22.50	\$11.25	\$1.13
0	25.00	12.50	1.25
1/2	29.00	14.50	1.45
1	33.00	16.50	1.65
1 1/2	37.50	18.75	1.88
2	42.00	21.00	2.10



Speed-wet Waterproof Paper

For water sanding undercoats, lacquers, enamels and varnishes.

LIST PRICES—Sheets 9 x 11"

GRIT NOS.	WEIGHT OF BACKING	PER REAM	PER 1/2 REAM	PER QUIRE
400	A	\$30.00	\$15.00	\$1.50
320-280 } 240-220 }	A or C	30.00	15.00	1.50
180	C	30.00	15.00	1.50
150	C	32.00	16.00	1.60
120	D	34.00	17.00	1.70
100	D	39.50	19.75	1.98
80	D	45.00	22.50	2.25
60	D	52.50	26.25	2.63



