

Since 1823, Norton has been the leading supplier of benchstones, files, slips and rubbing bricks. Our comprehensive line of sharpening and finishing stones delivers the superior performance you want.

TYPICAL APPLICATIONS

- Deburring
- · Dimensioning
- Sharpening
- Honing
- Rubbing



Speccheck

APPLICATION GUIDE AND PAGE INDEX

RFNCH	STONES -	PAGES I	$1/31_{-}$	M36

APPLICATION	COARSE/MEDIUM SHARPENING	FINE Stoning	FINISH Honing
Chip Breakers	-	Fine Crystolon Bench Stone	-
Draw Knives	Coarse Crystolon	Fine India Bench	Hard Arkansas
	Bench Stone	Stone	Bench Stone
Scrapers	Coarse Crystolon	Fine India Bench	Hard Arkansas
	Bench Stone	Stone	Bench Stone
Chisels (Wood)	Coarse Crystolon	Fine India Bench	Hard Arkansas
	Bench Stone	Stone	Bench Stone
	Waterstone	Waterstone	Waterstone
Plane Blades	Coarse Crystolon	Fine India Bench	Hard Arkansas
	Bench Stone	Stone	Bench Stone
	Waterstone	Waterstone	Waterstone

SLIPS - PAGE M41

APPLICATION	COARSE/MEDIUM Sharpening	FINE STONING	FINISH Honing
Milling Cutter	Medium India Round Edge Slip	Fine India Round Edge Slip	-
Carbide Tools	Coarse or Medium Crystolon Slip for Carbide Tools	Fine Crystolon Slip for Carbide Tools	-
Carving Tools	Medium India Carving Tools Slip	Hard Select Arkansas Carving Tool Slip	Arkansas Carving Tool Slip

RUBBING BRICKS - PAGE M44

TOOL/MATERIAL	COARSE/MEDIUM SHARPENING	FINE Stoning	FINISH HONING
Castings (scouring)	Crystolon Plain Rubbing Brick	-	-
Mold Marks (removing)	Crystolon Fluted Rubbing Brick	-	-
Magnetic Chucks	Crystolon Round Bench Stone	India Round Bench Stone	-

ABRASIVE FILES - PAGES M36 - M40

APPLICATION	COARSE/MEDIUM Sharpening	FINE Stoning	FINISH HONING
Form Cutter	Coarse or Medium India Knife Blade	Fine India Knife Blade	-
Gouges (Wood)	-	India Gouge Sharpening Stone	-
Jointer Knives	Crystolon Jointer Stone	India Jointer Stone	Hard Arkansas Flat File
Keyways	Coarse or Medium India Square File	Fine India Square File	-
Lathe Bits	Medium India Square File	Fine India Square File	-
Radius Tools	Medium India Round File	Fine India Round File	-
Reamers	Medium India Reamer Stone	Fine India Reamer Stone	-
Router Bits	-	Fine India Square File	-
Saws	Coarse India Taper Triangle	Fine India Taper Triangle	-
Center Punches	Medium India Triangular File	Fine India Triangular File	-
Moulding Cutters*	Coarse or Medium India File	Fine India File	-
Countersinks	Coarse India Triangular File	Fine India Triangular File	Hard Arkansas Triangular File
Auger Bits	Medium India Auger Bit Stone	Fine India Auger Bit Stone	-
Tap Threads	-	Fine India Triangular File	-

* SELECT SHAPE TO FIT CONFIGURATION





BENCHSTONES

TYPICAL APPLICATIONS

Restore the cutting edge on straight edged tools:

Chisels

- Draw knives
- Plane blades
- Spoke shaves
- Wood lathe cutters
- Knives
- · Precision tools and delicate instruments



SINGLE GRIT ABRASIVE BENCHSTONES

BETTER Single Grit Abrasive Benchstones	
FEATURES	BENEFITS
Crystolon – Fast cutting stones	
Premium silicon carbide abrasive	Ideal for general sharpening of cutting toolsFast stock removal for quick edge shaping with minimal loading
India – Norton Company's trademark for a fine finish	
Smooth cutting aluminum oxide abrasive	 Long lasting cutting edge The choice of artisans, craftsmen and mechanics Ideal for clean deburring, generating keen edges and quality finishes
Arkansas – Natural stone for the sharpest edge	
Premium Novaculite quarried in Arkansas	Sharpest possible razor edges
Available in soft and hard	Near mirror finishesUse for finer honing after India stone

		BETTER				
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT NO.	UPC NO.		
SINGLE GRIT ABRASIVE BENCHSTONES						
4 X 1 X 1/4	1/5	CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJB14 MJB14 FJB14 CB14 MB14 FB14	61463685460 61463685465 61463685460 61463685580 61463685575 61463685570		
4 X 1 X 1/2	1/5	CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJB24 MJB24 FJB24 CB24 MB24 FB24	61463685485 61463685480 61463685475 61463685595 61463685590 61463685585		
4 X 1-7/8	1/5	HARD ARKANSAS, ULTRA FINE (W/ WOOD BOX)	HM4	61463685925		
4 X 2 X 3/4	1/5	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE	SB4 HB4	61463685670 61463685655		
5 X 2 X 5/8	1/5	CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, MEDIUM INDIA, FINE	MJB35 FJB35 MB35 FB35	61463685495 61463685490 61463685605 61463685600		
6 X 1-7/8	1/5	HARD ARKANSAS, ULTRA FINE (W/ WOOD BOX)	HM6	61463685930		
6 X 2 X 3/4	1/5	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE	SB6 HB6	61463685675 61463685660		
6 X 2 X 1	1/5	CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJB6 MJB6 FJB6 CB6 MB6 FB6	61463685510 61463685505 61463685500 61463685620 61463685615 61463685610		
8 X 1-7/8	1/5	HARD ARKANSAS, ULTRA FINE (W/ WOOD BOX)	HM8	61463685935		
8 X 2 X 3/4	1/5	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE	SB8 HB8	61463685680 61463685665		
8 X 2 X 1	1/5	CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJB8 MJB8 FJB8 CB8 MB8 FB8	61463685525 61463685520 61463685515 61463685635 61463685630 61463685625		





Use Norton oil to optimize the performance of Crystolon, India and Arkansas stones.



It is the user's responsibility to refer to and comply with ANSI B7.1

BENCHSTONES (CONTINUED)

COMBINATION GRIT ABRASIVE BENCHSTONES

BETTER Combination Grit Abrasive Benchstones

FEATURES AND APPLICATIONS

Crystolon Combination

Coarse and fine grit sharp-cutting silicon carbide abrasive surfaces for general sharpening when the speed of sharpening is more important than the fineness of the cutting edges. Dark gray in color.

Crystolon -India Combination

Fast-cutting medium grit silicon carbide (Crystolon) and fine aluminum oxide (India) abrasive surfaces for keen, long-lasting edges on quality tools. One side dark gray in color, the other orange-brown.

India Combination

Coarse and fine grit aluminum oxide abrasive surfaces produce strong, keen, long-lasting edges on quality tools. Orange/brown in color.

India-Soft Arkansas Combination

Coarse grit aluminum oxide and extra fine grit soft Arkansas surfaces for start-to-finish sharpening and honing. Preferred by woodworkers for sharpening straight blades and gouges. One side orange/brown; the other off-white.

Crystolon Cutler's Stone

Coarse and extra fine grit silicon carbide surfaces. This fast-cutting stone is used to sharpen large edge tools to moderate tolerances. Dark gray in color.

Giant Combination

Two grit surfaces in a single large stone for long, sweeping strokes: Crystolon for fast sharpening, aluminum oxide (India) for longer-lasting cutting edges, or a combination of both abrasives. Available with or without a dust-proof steel box with a non-slip foam base.

		BETTER					
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT No.	UPC NO.			
COMBINATION GRIT ABRASIVE BENCHSTONES							
4 X 1 ROUND	1/5	CRYSTOLON, COARSE/FINE INDIA, COARSE/FINE	JB64 IB64	61463685435 61463685545			
4 X 1-3/4 X 5/8	1/5	CRYSTOLON, COARSE/FINE INDIA, COARSE/FINE	JB134 IB134	61463685440 61463685550			
5 X 2 X 3/4	1/5	CRYSTOLON, COARSE/FINE INDIA, COARSE/FINE	JB45 IB45	61463685445 61463685555			
6 X 2 X 1	1/5	CRYSTOLON, COARSE/FINE CRYSTOLON-INDIA, MEDIUM/FINE INDIA, COARSE/FINE INDIA-SOFT ARKANSAS, COARSE/EXTRA FINE	JB6 IC6 IB6 SIB6	61463685450 61463685643 61463685560 61463685700			
7 X 2 X 1	1/2	INDIA-SOFT ARKANSAS REVERSIBLE, MEDIUM/EXTRA FINE INDIA-HARD ARKANSAS REVERSIBLE, FINE/ULTRA FINE	SIB27 HIB27	61463685860 61463685865			
8 X 2 X 1	1/5	CRYSTOLON, COARSE/FINE INDIA, COARSE/FINE	JB8 IB8	61463685455 61463685565			
11-1/2 X 2-1/2 X 1 GIANT COMBINATION	1/1 1/2	CRYSTOLON, COARSE/FINE (W/ METAL BOX) CRYSTOLON, COARSE/FINE (STONE ONLY) CRYSTOLON-INDIA, MEDIUM/FINE (STONE ONLY) INDIA, COARSE/FINE (W/ METAL BOX) INDIA, COARSE/FINE (STONE ONLY)	JUM22 JUM3 IC11 IM11 IM2	61463685835 61463685840 61463687239 61463685846 61463685851			
12 X 2-1/2 X 1-1/2	1/2	CRYSTOLON CUTLER'S STONE, COARSE/EXTRA FINE	JUM4	61463685855			







BENCHSTONES (CONTINUED)

BENCHSTONE STATIONS

BETTER Benchstone Stations

FEATURES AND BENEFITS

Multi-Oilstone Sharpening Stations

The Multi-Oilstone contains three oil-filled stones. Ideal for general sharpening and honing large straight edge tools. The stone length permits long, sweeping strokes. The coarse crystolon stone quickly restores badly worn cutting edges; the medium crystolon stone produces the average edge needed for many tools; the fine India stone hones to a sharper edge. The heavy base has a non-skid bottom. A pint can of Norton oil is included. A favorite of chefs and butchers.

3-In-1 Tool & Knife Sharpening Systems

Designed for general sharpening, the IM100 is a mini version of the Multi-Oilstone...containing coarse Crystolon, medium Crystolon, and fine India stones. The IM101, designed to produce the finest edges possible, contains fine India, Soft Arkansas, and Hard Select Arkansas stones. Both of which come complete with instructions and a 4 ounce container of Norton Oil.

		BETTER			
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT No.	UPC NO.	
MULTI-OILSTONE SHARPENING SYSTEM					
11-1/2 X 2-1/2 X 1/2 (STONE SIZE)	1/1 1/2 1/1	MULTI-OILSTONE, COARSE/MED/FINE REPLACEMENT STONE – CRYSTOLON, COARSE REPLACEMENT STONE – CRYSTOLON, MEDIUM REPLACEMENT STONE – INDIA, FINE REPLACEMENT PART – CENTER SECTION (WITH HANDLES)	IM313 JM3 JM6 IM9 RP2	61463685960 61463685980 61463685975 61463685970 61463685990	
3-IN-1 TOOL & KNIFE SHARPENING SYSTEMS					
6 X 2 X 1/2 (STONE SIZE)	1/5	3-IN-1 SHARPENER, COARSE/MED/FINE 3-IN-1 SHARPENER, FINE/EXTRA FINE/ULTRA FINE REPLACEMENT STONE — CRYSTOLON, COARSE REPLACEMENT STONE — CRYSTOLON, MEDIUM REPLACEMENT STONE — INDIA, FINE	IM100 IM101 JM31 JM61 IM91	61463685356 61463685357 61463685352 61463685350 61463685348	





WOOD BOXES

Storage boxes for 6 x 2 x 1 and 8 x 2 x 1 bench stones.

SIZE	MIN./ STD. PKG.	SPEC	UPC NO.
WOOD BOXES			
FOR 6" BENCH STONE	1/5	WOOD BOX	61463690718
FOR 8" BENCH STONE	1/5	WOOD BOX	61463690719

NORTON OIL

Norton Oil is a highly refined lubricating oil specifically formulated for sharpening stone use, but equally ideal for all lubricating jobs. It will not load or "gum-up" sharpening stones. Meets U.S. Pharmacopoeia standards for mineral oil purity; it may be used around food preparation operations. XB1 is a dispenser-type can for easy use.

SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.
SHARPENII	NG STO	NE OIL			
4-1/2 OUNCE	10/20	CAN	SHARPENING STONE OIL	XB1	61463687760
1 PINT	10/20	CAN	SHARPENING STONE OIL	XB5	61463687770
1 QUART	5/10	CAN	SHARPENING STONE OIL	XB2	61463687775



BENCHSTONES (CONTINUED)

PRECISION BENCHSTONES

Precision Benchstones BETTER

FEATURES AND BENEFITS

Jewelers' Benchstones

These stones are excellent for sharpening the fine, precision cutting tools of jewelers, engravers and artisans.

Penknife Precision Benchstones

Ideal for sharpening cutting tools, laboratory blades, surgical instruments, engravers' and die makers' tools, and pocket knives to the keenest edge.

			BETTER		
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.
JEWELEI	RS' BE	NCHS	TONES		
4 X 2 X 3/8	1/5	ı	HARD ARKANSAS JEWELER'S STONE, ULTRA FINE	HB24	61463687525
6 X 2 X 3/8	1/5	I	HARD ARKANSAS JEWELER'S STONE, ULTRA FINE	HB26	61463687530
PENKNIF	E PRE	CISIO	N BENCHSTONES		
3 X 1 X 3/8	5/10	l I	HARD ARKANSAS PENKNIFE PIECE, ULTRA FINE SOFT ARKANSAS PENKNIFE PIECE, EXTRA FINE	HB13 SB13	61463687550 61463687560
4 X 1 X 3/8	5/10	I	SOFT ARKANSAS PENKNIFE PIECE, EXTRA FINE HARD ARKANSAS PENKNIFE PIECE, ULTRA FINE	SB14 HB14	61463687565 61463687555





I SHAPE

WATERSTONES

Waterstones - Produce superior edge for planes and straight chisels



FEATURES

· System of four "Japanese-type" stones designed to

· Softer than traditional oilstones - lapping action

BENEFITS

- · Fast sharpening, fine finish
- · Use with water
- Superb results with low pressure

		BEST	
SIZE	MIN./ STD. PKG.	SPEC	UPC NO.
WATERST	ONES		
8 X 2 X 1	1/5	220 GRIT 1000 GRIT 4000 GRIT 8000 GRIT	61463691065 61463691066 61463691067 61463691068
8 X 2 X 1 SET	1	SET OF 4 STONES: 220, 1000, 4000, 8000 GRIT	61463691069
8 X 2 X 1 COMBINATION	1/4	COMBINATION 220/1000 COMBINATION 1000/4000 COMBINATION 4000/8000	61463691070 61463691071 61463691072
8 X 3 X 1	1/5	220 GRIT 1000 GRIT 4000 GRIT 8000 GRIT	61463689505 61463689506 61463689507 61463689508
8 X 3 X 1 SET	1 SET	SET OF 4 STONES: 220, 1000, 4000, 8000 GRIT	61463624334
8 X 3 X 1 COMBINATION	1/5	COMBINATION 220/1000 COMBINATION 1000/4000 COMBINATION 4000/8000	61463624335 61463624450 61463624336







BENCHSTONES (CONTINUED)

DIAMOND SUPERABRASIVE SHARPENING STONES

Norton diamond sharpening stones are made using monocrystalline (single solid crystals) diamonds, nickel bonded to a solid steel substrate for fast metal removal.



BETTER Diamond Sharpening Stones – The fastest cutting stone FEATURES • Monocrystalline diamonds (use with water) • Fastest cut • Longest life • Diamond abrasive with a nickel bond on a core of solid steel • Wear resistant, unbreakable • Will not groove, cup, or hollow • Holds tolerance of ±.002 • Effective for deburring, filing and abrading • Rapid stock removal

		BETTER	
SIZE	MIN./ STD. PKG.	SPEC	UPC NO.
3-1/3 X 7/8 X 3/16	1/10	EXTRA COARSE, 220 GRIT, 60 MICRON COARSE, 325 GRIT, 45 MICRON FINE, 600 GRIT, 25 MICRON EXTRA FINE, 1200 GRIT, 9 MICRON	61463690624 61463690625 61463690626 61463690627
6 X 2 X 1/4	1/5	EXTRA COARSE, 220 GRIT, 60 MICRON COARSE, 325 GRIT, 45 MICRON FINE, 600 GRIT, 25 MICRON EXTRA FINE, 1200 GRIT, 9 MICRON	61463690632 61463690633 61463690634 61463690635
11-1/2 X 2-1/2 X 3/8	1/2	EXTRA COARSE, 220 GRIT, 60 MICRON COARSE, 325 GRIT, 45 MICRON FINE, 600 GRIT, 25 MICRON EXTRA FINE, 1200 GRIT, 9 MICRON	61463690640* 61463690641* 61463690642* 61463690643*

^{*}CAN BE USED AS REPLACEMENT STONE IN IM313 MULTI-OILSTONE SHARPENING SYSTEM

Speccheck

BENCHSTONE PERFORMANCE ATTRIBUTES

	FAST CUT	SHARPENING		HONING	SHARPES	ST EDGE
Grit Size	Coarse	Medium	Fine	Extra Fine		Hard Arkansas
Abrasive	Diamond	Crystolon	India	Soft Arkansas	Waterstone	Hard Arkansas
Product/Color	Silver Metallic	Grey	Orange/ Brown	Milky White	Orange to White	Grey to Translucent

BENCHSTONE PRODUCT COST GUIDE					
LOWEST PRICE				HIGHEST PRICE	
Crystolon	Waterstone	Soft Arkansas	Hard Arkansas	Diamond	
India					

Speccheck

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	CORRECTION
Clogging, glazing or loading of the stone surface	Insufficient lubrication to suspend residue	Saturate the stone surface with Norton oil
Excessive metal removal from	Stone is too coarse	Use a finer grit
tool edge	Stone is too soft	Use a different type (abrasive)
Tool edge breaks down quickly	Poor quality steel	Use higher quality tool
	Edge too thin	Correct edge angle to duplicate original edge angle (knives = 15° to 20°)
Tool edge not sharp enough	Stone is too coarse	Hone with finer grit or choose an India or Arkansas abrasive
Tool doesn't cut properly	Check for correct bevel angle	Change bevel angle to duplicate original edge angle
	Check for wire edge	Remove wire edge by running across a piece of hardwood once or twice
(straight edge tools)	Edge out of true (rounded corners)	Vertically pass tool over benchstone to square corners

Tech los

CHOOSE ONE OR A SEQUENCE OF BENCHSTONES TO RESTORE A CUTTING EDGE.

Use oil

- For best benchstone performance to keep stones free cutting, with no loading or gumming, use stones with oil.
- · If stones does gum-up or load, clean with kerosene.
- Use of stones on flat tools
 - Flat-bladed tools require flat stones. All benchstones (except diamond) can be flattened by rubbing on waterproof sandpaper against a flat surface.
- Use of stones on round or shaped tool
- · Shaped tools require shaped stones.
- · Select an appropriately-shaped abrasive file or slip.

Maintain correct tool edge bevel angle

- · Many knives and tools have 2 bevels:
- The blade bevel (the back of the edge), once correctly set, is seldom sharpened.
- The edge bevel does the cutting and requires sharpening to 15 to 20 degrees.
- Too acute an edge bevel will weaken, dull quickly and breakdown.
- Too obtuse edge bevel will not cut properly.

■ The Final step

- Sharpening often leads to a minute burr (wire edge) on the tool.
- Remove this by "stropping" the tool on leather or hard wood for the best cutting edge.



It is the user's responsibility to refer to and comply with ANSI B7.1

ABRASIVE FILES

Norton abrasive files hold their shape while imparting the finest, most uniform finish on precision machine parts and in tool and die making. Abrasive files are ideal for any deburring, chamfering or radiusing job, or for fitting delicate parts. Select the file shape that matches the contour of the surface being stoned.



BETTER Abrasive Files

FEATURES AND BENEFITS

Crystolon Files

Fast-acting silicon carbide products, Crystolon files are designed for use where moderate tolerances are acceptable.

India Files

India files are ideal when a close tolerance is more important than the speed of cut.

Hard Select Arkansas Files

The super fine grit of the natural Hard Select Arkansas file produces very keen edges and extremely close tolerances unequalled by any other abrasive file.

Hard Arkansas Files

Hard Arkansas has an ultra fine grit that produces the finest edge possible while maintaining tolerances unequalled by any other abrasive file. It will also produce a highly polished finish.

ABRASIVE FILES (CONTINUED)

SOUARE FILES

Square file applications range from dimensioning keyways to maintain fit, stoning faces on router bits, touching-up edges of reamer teeth, and lapping/honing to close tolerances to produce the finest edge on precision instruments, die work and delicate tools.

		BE	TTER			
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT NO. UI	PC NO.		
SQUARE ABRASIVE FILES						
3 X 1/4	5/10	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE		1463690415 1463686590		
3 X 3/8	5/10	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE		1463690416 1463686595		
3 X 1/2	5/10	SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE		2463690417 1463686600		
4 X 1/4	5/20	CRYSTOLON, MEDIUM INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF14 61 MF14 61	1463686025 1463686075 1463686070 1463686065		
4 X 3/8	5/20	CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF34 61 MF34 61	1463686030 1463686090 1463686085 1463686080		
4 X 1/2	5/20	CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	FJF44 61 CF44 61 MF44 61	1463686045 1463686040 1463686105 1463686100 1463686095		
6 X 1/2	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MF46 61	1463686120 1463686115 1463686110		
6 X 5/8	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MF56 61	1463686135 1463686130 1463686125		
6 X 3/4	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MF66 61	1463686150 1463686145 1463686140		
6 X 1	5/20	CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF76 6′ FJF76 6′ CF76 6′ MF76 6′	1463625001 1463625039 1463625003 1463686165 1463686160 1463686155		





RUBBER FINISHING STICKS

Finished Sticks are used for manual or mechanical honing on machines where they are mounted in holders or fixtures. Intended for use where precision dimensional limits and grade controls are required, such as die polishing.

		BET	TER	
SIZE T X W X L	STD. PKG.	SPEC.	UPC NO.	
RUBBER FINISHING STICKS				
1/2 X 1/2 X 6	5	57A120-B2RR	61463610608	
1/2 X 1 X 6	5	57A120-B2RR	61463610609	



- Use Crystolon for working softer metals such as brass, iron or stainless steels.
- Use India or Hard Arkansas for harder steels.



It is the user's responsibility to refer to and comply with ANSI B7.1

ABRASIVE FILES (CONTINUED)

TRIANGULAR FILES

Triangular Files are used for a variety of deburring, chamfering and radiusing applications including cleaning tap threads, stoning cutting surfaces of milling cutters, lapping honing tools, dies and molds, and putting precision points on center punches.

The India line also offers Taper Triangles...used by mechanics, tool and die makers to impart the correct edge in the least time.









ROUND ABRASIVE FILES

Round Files are ideal for deburring, chamfering, radiusing, lapping, honing, for cleaning radius tools to a burr free edge, and for dimensioning compound curves on templates.

The India line also offers Taper Rounds.... selected by craftsmen, woodworkers, and die makers as the unique shape for imparting the correct edge quickly.









HALF ROUND FILES

Half Round Files offer both a round and a flat surface for imparting a fine finish on precision machine parts, tools and dies.





		BETT	ER	
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT No.	UPC NO.
TRIANGU	LAR ABR	ASIVE FILES		
3 X 1/4	5/10	HARD ARKANSAS, ULTRA FINE	HF113	61463686620
3 X 3/8	5/10	HARD ARKANSAS, ULTRA FINE	HF133	61463686625
3 X 1/2	5/10	HARD ARKANSAS, ULTRA FINE	HF143	61463686630
4 X 1/4	5/20	CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	FJF114 CF114 MF114 FF114	61463686185 61463686240 61463686235 61463686230
4 X 3/8	5/20	CRYSTOLON, MEDIUM INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF134 CF134 MF134 FF134	61463686200 61463686255 61463686250 61463686245
4 X 1/2	5/20	CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	FJF144 CF144 MF144 FF144	61463686205 61463686270 61463686265 61463686260
4 X 1/2 X 1/4	5/20	INDIA TAPERED, MEDIUM India Tapered, fine	MF544 FF544	61463686685 61463686680
6 X 1/2	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF146 MF146 FF146	61463686285 61463686280 61463686275
6 X 5/8	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF156 MF156 FF156	61463686300 61463686295 61463686290
6 X 3/4	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF166 MF166 FF166	61463686315 61463686310 61463686305
6 X 1	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF176 MF176 FF176	61463686330 61463686325 61463686320
ROUND A	BRASIVE	FILES		
3 X 1/4	5/10	HARD ARKANSAS, ULTRA FINE	HF813	61463686800
4 X 1/4	5/20	CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF214 FJF214 CF214 MF214 FF214	61463686430 61463686425 61463686480 61463686475 61463686470
4 X 3/8	5/20	CRYSTOLON, MEDIUM	MJF234	61463686440

3 X 1/4	5/10	HARD ARKANSAS, ULTRA FINE	HF813	61463686800
4 X 1/4	5/20	CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF214 FJF214 CF214 MF214 FF214	61463686430 61463686425 61463686480 61463686475 61463686470
4 X 3/8	5/20	CRYSTOLON, MEDIUM INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF234 CF234 MF234 FF234	61463686440 61463686495 61463686490 61463686485
4 X 1/2	5/20	CRYSTOLON, MEDIUM INDIA, COARSE INDIA, MEDIUM INDIA, FINE	MJF244 CF244 MF244 FF244	61463686450 61463686510 61463686505 61463686500
4 X 1/2 X 1/4	5/20	INDIA TAPERED, COARSE INDIA TAPERED, MEDIUM INDIA TAPERED, FINE	CF644 MF644 FF644	61463686660 61463686655 61463686650
6 X 1/2	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF246 MF246 FF246	61463686525 61463686520 61463686515
6 X 5/8	5/20	INDIA, MEDIUM	MF256	61463686535
6 X 3/4	5/20	INDIA, MEDIUM	MF266	61463686550
6 X 1	5/20	INDIA, MEDIUM	MF276	61463686565

HALF ROUND ABRASIVE FILES

4 X 1/4	5/20	INDIA, MEDIUM INDIA, FINE	MF314 FF314	61463686355 61463686350
4 X 5/16	5/20	INDIA, MEDIUM	MF324	61463686370
4 X 3/8	5/20	INDIA, MEDIUM INDIA, FINE	MF334 FF334	61463686385 61463686380
4 X 1/2	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF344 MF344 FF344	61463686405 61463686400 61463686395



PRECISION FILES

POINTED ABRASIVE FILES

Pointed Files are ideally suited for engravers and die sinkers for stoning difficult recesses on instruments and die tools.





DIAMOND SHAPED ABRASIVE FILES

Diamond Files are precision sharpening favorites for cleaning acute angles in dies and molds and for stoning geometric chasers and sewing machine feeds.





BEVELED ABRASIVE FILE

Beveled Files are preferred by exacting artisans, jewelers, mechanics, and watchmakers for honing the finest of finishes. These extremely hard files provide years of service.





FLAT ABRASIVE FILE

The choice of mechanics, artisans and jewelers, these long lasting files produce the finest finishes.





OVAL ABRASIVE FILE

The Oval File's shape makes it ideal for finishing and honing recesses or curved edges of precision instruments.





KNIFE BLADE FILES

Knife Blade Files are used by clock and watch makers to quickly sharpen, hone and maintain the edge and point of cutting tools.





		BETTE	ER	
SIZE	MIN./ STD. PKG.	SPEC	PRODUCT NO.	UPC NO.
POINTED A	BRASIV	/E FILES		
3 X 1/4 BASE	5/10	HARD ARKANSAS, ULTRA FINE	HF863	61463686825
3 X 5/16 BASE	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF723 MF723 FF723	61463686750 61463686745 61463686740
DIAMOND :	SHAPED	ABRASIVE FILES		
3 X 1/2 X 3/16	5/10	HARD ARKANSAS, ULTRA FINE	HF843	61463686815
4 X 9/16 X 3/16	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CT134 MT134 FT134	61463686720 61463686715 61463686710
BEVELED A	ABRASIN	/E FILE		
3 X 3/8 X 1/8	5/10	HARD ARKANSAS, ULTRA FINE	HF833	61463686810
FLAT ABRA	SIVE F	ILE		
3 X 3/8 X 1/8	5/10	HARD ARKANSAS, ULTRA FINE	HF823	61463686805
OVAL ABRA	ASIVE F	ILE		
3 X 1/2 X 3/16	5/10	HARD ARKANSAS, ULTRA FINE	HF853	61463686820
KNIFE BLA	DE FILE	:S		
3 X 3/4 X 1/8	5/10	HARD ARKANSAS, ULTRA FINE	HF873	61463686830
4 X 1 X 1/8 BACK	5/20	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF724 MF724 FF724	61463686780 61463686775 61463686770
ABRASIVE	FILE AS	SSORTMENT KITS		
HARD ARKANSAS	1/5	INCLUDES 1 EACH OF HF13, HF113, HF813, HF873.		61463686839
HARD ARKANSAS - INDIA KIT	1/5	INCLUDES 1 EACH OF HARD ARKANSAS HF13, HF43, HF113, HF813, HF873, INDIA FF14, FF44, FF114, FF214, FF724.		61463686840

FILE ASSORTMENT KITS

Hard Arkansas File Kits



This kit provides a selection of the our most popular square, triangular, round and knife blade files in ultra fine Hard Arkansas for honing and polishing a wide range of configurations.

Hard Arkansas-India File Kits









This kit accommodates the complete range of finishing, honing and polishing applications. It contains a selection of the most popular file shapes/sizes in both fine grit India and ultra fine grit Hard Arkansas.

M**39**

PRECISION FILES (CONTINUED)

SILVERSMITH PRECISION FILES

These aluminum oxide precision-shaped stones are designed for use by silversmiths and mechanics for close tolerance lapping, touching-up instruments, and for cleaning tools and dies.

	X
	Y
	AA
HONE STATE	BB
	DD
	EE

ENGRAVER'S CHUCK & POINTS

Engravers' Points are the choice of professional diemakers for cleaning out tight corners and recesses of dies where close tolerances and accuracy are a must. The



Engravers' Chuck is a knurled nickel-plated tool designed to hold the Engravers' Point.



STONE ROLL KIT

Thirty-five (35) stone items in a variety of abrasives, grits, shapes and sizes designed to provide a configuration suitable to satisfying every need. Housed in a top quality leather roll that offers protection, easy portability, and full stone display, the stones are fastened by an elastic strap which permits easy removal and replacement of all items.



		BE	TTER					
MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.				
SILVERSMITH STONES								
5/20	х	INDIA, MEDIUM INDIA, FINE	MF414 FF414	61463686855 61463686850				
5/20	Υ	INDIA, MEDIUM INDIA, FINE	MF424 FF424	61463686915 61463686910				
5/20	AA	INDIA, FINE	FF434	61463686940				
5/20	ВВ	INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CF444 MF444 FF444	61463686965 61463686960 61463686955				
5/20	DD	INDIA, MEDIUM INDIA, FINE	MF464 FF464	61463686990 61463686985				
5/20	EE	INDIA, MEDIUM INDIA, FINE	MF474 FF474	61463687005 61463687000				
JCK A	ND P	OINTS						
5/10	EP	ENGRAVER'S CHUCK	XT1	61463687485				
5/20	EP	INDIA POINT, FINE SOFT ARKANSAS POINT, EXTRA FINE	FT11 AT11	61463687495 61463687490				
STONE ROLL KIT								
1		SEE BELOW		61463686841				
	STD. PKG. S/20 5/20 5/20 5/20 5/20 5/20 5/20 5/20 5/20 5/20	STD. SHAPE	MIN./ STD. PKG. SHAPE SPEC ONES 5/20 X INDIA, MEDIUM INDIA, FINE 5/20 Y INDIA, MEDIUM INDIA, FINE 5/20 AA INDIA, FINE 5/20 BB INDIA, MEDIUM INDIA, FINE 5/20 DD INDIA, MEDIUM INDIA, FINE 5/20 DD INDIA, MEDIUM INDIA, FINE 5/20 EE INDIA, MEDIUM INDIA, FINE 5/20 EE INDIA, MEDIUM INDIA, FINE JCK AND POINTS 5/10 EP ENGRAVER'S CHUCK 5/20 EP INDIA POINT, FINE SOFT ARKANSAS POINT, EXTRA FINE	STD.				

STONE ROLL KIT CONTENTS

SIZE	DESCRIPTION	PRODUCT NO.
4X1X 1/4	BENCH STONE, COARSE	CJB14
4X1-3/4X5/8	BENCH STONE, COMBINATION	JB134
4X3/8	TRIANGULAR FILE, MEDIUM	MJF134
4X3/8	ROUND FILE, FINE	FJF234
4X1-3/4X3/8	BENCH STONE, COMBINATION	IB134
4X 3/8	SQUARE FILE, COARSE	CF34
4X1/2X1/4	TAPER TRIANGLE, MEDIUM	MF544
4X1/4	ROUND FILE, FINE	FF214
4X1/2X1/4	TAPER ROUND, MEDIUM	MF644
4X3/8	HALF ROUND FILE, MEDIUM	MF334
4X9/16X3/16	DIAMOND FILE, MEDIUM	MT134
3X5/16 BASE	INDIA POINT, MEDIUM	MF723
4X1X1/8 BACK	KNIFE BLADE, MEDIUM	MF724
4X5/16X3/16X5/16X1/16	SILVERSMITH FILE, MEDIUM	MF414
4X3/8X3/16X1/8X1/16	SILVERSMITH FILE, MEDIUM	MF424
3-1/2X7/16X3/16	SILVERSMITH FILE, MEDIUM	MF433
4X7/16X3/16X1/8	SILVERSMITH FILE, MEDIUM	MF434
4X1/2X1/16	SILVERSMITH FILE, MEDIUM	MF444
4X1/2X3/16X3/16X1/16	SILVERSMITH FILE, MEDIUM	MF454
4X1/2X1/4X5/16X1/8	SILVERSMITH FILE, MEDIUM	MF464
4X1/2X1/4X5/16X1/8	SILVERSMITH FILE, MEDIUM	MF474
4X1X7/16X3/16	ROUND EDGE SLIP, FINE	FS14
3-1/2X3/4X3/16	REAMER STONE, MEDIUM	MT123
4 LONG	AUGER BIT STONE, MEDIUM	MT10
4X1X3/8	PENKNIFE BENCH STONE, EXTRA FINE	SB14
3X1/4	SQUARE FILE, ULTRA FINE	HF13
3X1/4	TRIANGULAR FILE, ULTRA FINE	HF113
3X1/4	ROUND FILE, ULTRA FINE	HF813
3X1/2X3/16	DIAMOND FILE, ULTRA FINE	HF843
3X3/8X1/8	BEVEL FILE, ULTRA FINE	HF833
3X3/8X1/8	FLAT FILE, ULTRA FINE	HF823
3X1/2XX3/16	OVAL FILE, ULTRA FINE	HF853
3X1/4 BASE	POINTED FILE, ULTRA FINE	HF863
3X3/4X1/8 BACK	KNIFE BLADE, ULTRA FINE	HF873
4X1-3/4X3/8X1/8	ROUND EDGE SLIP, ULTRA FINE	HS4
	4X1-3/4X5/8 4X3/8 4X3/8 4X3/8 4X1-3/4X3/8 4X 3/8 4X1/2X1/4 4X1/4 4X1/4 4X1/2X1/4 4X3/8 4X9/16X3/16 3X5/16 BASE 4X1X1/8 BACK 4X5/16X3/16X1/16 4X3/8X3/16X1/8X1/16 4X1/2X1/16 4X1/2X1/16 4X1/2X1/16 4X1/2X1/16X1/16 4X1/2X1/4X5/16X1/18 4X1/2X1/4X5/16X1/18 4X1/2X1/4X5/16X1/18 4X1/2X1/4X5/16X1/18 4X1/2X1/4X5/16X1/18 4X1/2X1/4X5/16X1/16 3-1/2X3/4X3/16 4 LONG 4X1X3/8 3X1/4 3X1/4 3X1/4 3X1/4 3X1/4 3X1/2X3/16 3X3/8X1/8 3X3/8X1/8 3X3/2X3/16 3X1/4 BASE 3X3/4X1/8 BACK	4X1-3/4X5/8 4X3/8 4X3/8 4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1-3/4X3/8 4X1/2X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X1/4 4X3/8 4X9/16X3/16 3X5/16 BASE 4X1/3X1/8 4X5/16X3/16X1/16 4X5/16X3/16X1/16 4X1/2X1/16 5ILVERSMITH FILE, MEDIUM 5ILVERSMITH FILE, MEDIUM 4X1/2X1/16 5ILVERSMITH FILE, ULTRA FINE 5ILVER





ABRASIVE SLIPS

Norton abrasive slips impart the finest, most uniform finish on curved knives and tools, molders' knives, wood gouges, bead planers, carving tools and carbide-tipped tools. These fast-acting slips hold their shape and are long lasting.



CARBIDE TOOL SLIPS

Crystolon (silicon carbide)
Slips are used to maintain the edge of carbide tools, keeping regrinding costs and time to an absolute minimum. Not oil-filled. The set of three slips offers a complete sharpening service.





ROUND EDGE SLIPS

Round Edge Slips are ideal for precision sharpening and honing of bead planers, curved knives and tools, molders' knives, and wood gouges.

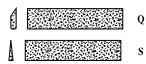


			BETTER		
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.
CARBIDE TOOL SI	LIPS				
3-1/2 X 3/4 X 1/2	5/20		CRYSTOLON, MEDIUM CRYSTOLON, FINE	MJT63 FJT63	61463687290 61463687285
SET OF 3 SLIPS	5/10		CRYSTOLON (COARSE/MEDIUM/FINE)	J63	61463687300
ROUND EDGE SLII	PS				
3 X 1-3/4 X 1/4 X 1/16	5/10		HARD ARKANSAS, ULTRA FINE	HS3	61463687040
4 X 1 X 7/16 X 3/16	5/10		INDIA, MEDIUM INDIA, FINE	MS14 FS14	61463687140 61463687135
4 X 1-1/4 X 1/4 X 1/8	5/10		HARD ARKANSAS, ULTRA FINE	HS14	61463687050
4 X 1-3/4 X 3/8 X 1/8	5/10		SOFT ARKANSAS, EXTRA FINE HARD ARKANSAS, ULTRA FINE	SS4 HS4	61463687055 61463687045
4-1/2 X 1-3/4 X 1/4 X 1/16	5/10		CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJS24 MJS24 FJS24 CS24 MS24 FS24	61463687085 61463687080 61463687075 61463687155 61463687150 61463687145
4-1/2 X 1-3/4 X 3/8 X 1/8	5/10		INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CS34 MS34 FS34	61463687170 61463687165 61463687160
4-1/2 X 1-3/4 X 1/2 X 3/16	5/10		CRYSTOLON, COARSE CRYSTOLON, MEDIUM CRYSTOLON, FINE INDIA, COARSE INDIA, MEDIUM INDIA, FINE	CJS44 MJS44 FJS44 CS44 MS44 FS44	61463687100 61463687095 61463687090 61463687185 61463687180 61463687175
5 X 1 X 5/16 X 3/32	5/10		INDIA, MEDIUM INDIA, FINE	MS15 FS15	61463687195 61463687190
6 X 2-1/4 X 3/4 X 3/8	5/10		CRYSTOLON, MEDIUM CRYSTOLON, FINE	MJS66 FJS66	61463687110 61463687105

SPECIALTY STONES FOR WOODWORKING

CARVING TOOL SLIP FILE

Carving Tool Slips are ideal for sharpening, final finishing and maintaining the edge required on the special gouges, knives and deep-grooved tools used in carving wood.



GOUGE SHARPENING STONE

Aluminum oxide Gouge Sharpening Stones have a unique shape for sharpening and lapping inside and outside curved surfaces on gouges and other cutting tools. An indispensable tool for woodworkers, mechanics, artisans and craftsmen.

JOINTER STONES

Jointer Stones provide a fast method of restoring and maintaining the cutting edges of mechanical jointing devices on automatic planers.

OODIVOIN								
			BETTER					
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.			
CARVING TOOL SLIPS								
2-1/4 X 7/8 X 3/16	5/20	Q S Q S	INDIA, MEDIUM INDIA, MEDIUM HARD ARKANSAS, ULTRA FINE HARD ARKANSAS, ULTRA FINE	MS22 MS42 AS22 AS42	61463687220 61463687230 61463687255 61463687265			
GOUGE SHA	RPEN	ING S	TONE					
6 X 2 X 1 X 1/2 X 3/8	5/10	U	INDIA GOUGE SHARPENING STONE, FINE	FS76	61463687305			
JOINTER ST	ONES							
4 X 3/4 X 1/4	5/10		CRYSTOLON, MEDIUM INDIA, COARSE	JE54 IE54	61463687325 61463687365			
4 X 3/4 X 5/16	5/10		CRYSTOLON, MEDIUM INDIA, COARSE	JE64 IE64	61463687330 61463687370			
4 X 3/4 X 3/8	5/10		CRYSTOLON, MEDIUM INDIA, COARSE	JE74 IE74	61463687335 61463687375			
4 X 3/4 X 1/2	5/10		CRYSTOLON, MEDIUM INDIA, COARSE	JE84 IE84	61463687340 61463687380			
4 X 3/4 X 3/4	5/10		CRYSTOLON, MEDIUM INDIA, COARSE	JE104 IE104	61463687345 61463687385			

MACHINE TOOL SPECIALTY STONES

MACHINE KNIFE STONES

Silicon Carbide Machine Knife Stones offer both a coarse and a fine side for sharpening and honing paper- and cloth-cutting knives and planer knives on the machine. The groove around the middle of the stone protects fingers and provides a secure hold.



REAMER STONES

Aluminum oxide Reamer Stones are durable, fastcutting stones designed for imparting a professional edge on reamers, taps and rough rounders on shoe machine tools.



BOAT STONES

Boat Stones are medium grit, medium grade stones that are easy to hold and use. Excellent for deburring and breaking sharp edges on dies, fixtures and machined parts, and for deburring grinder magnetic chucks.

			BETTER				
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.		
MACHINE KNIFE STONE							
4" DIA. X 1-1/2 THICK	1/5	МК	CRYSTOLON MACHINE KNIFE STONE, COARSE/FINE	JB74	61463687570		
REAMER STONES							
4-1/2 X 1 X 5/16	5/10		INDIA, MEDIUM INDIA, FINE	MT124 FT124	61463687420 61463687415		
5 X 1 X 3/16	5/10		INDIA, MEDIUM INDIA, FINE	MT125 FT125	61463687430 61463687425		
6 X 1 X 1/4	5/10		INDIA, MEDIUM INDIA, FINE	MT126 FT126	61463687440 61463687435		
BOAT STONES							
1-1/2 X 2-1/2 X 9 (ME42620)	10		38A609-IVBE		61463610503		
1-1/2 X 2-1/2 X 9 (ME42620)	10		37C80-HV		61463610369		

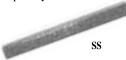




SPECIALTY LARGE ABRASIVE FILES

SICKLE & SCYTHESTONE

The silicon carbide Sickle & Scythesone quickly produces a fast-cutting edge on sickles, scythes and brush hooks. This stone is most frequently chosen where the speed of sharpening is the primary consideration.



TRADESMEN'S UTILITY STONES

These silicon carbide stones are designed to quickly sharpen trimming knives used on leather and rubber, also has usage as an abrasive file in many industries. The JT910 is a single grit stone without handle. The JT920 offers the same stone with a sturdy wooden handle. The JT930 also has a wooden handle, but features a stone with two different grit surfaces.

GARDEN TOOL SHARPENER

The silicon carbide Garden Tool Sharpener, used by gardeners and homeowners, has numerous industrial uses. The elliptical shape makes the stone conformable to all flat and curved cutting edges.



UTILITY FILE

Silicon carbide utility files have a long, wedge shape and four flat sides designed for sharpening coarse edges on cutting implements and edged garden tools. Fast and efficient, it outlasts and out-sharpens metal files. The wooden handle makes it easy to



			BETTER					
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT No.	UPC NO.			
SICKLE & SCYTHESTONES								
10 X 1-5/16 X 3/4	5/10		ALUNDUM SCYTHESTONE, COARSE	TD1	61463687715			
10 X 1-1/4 X 3/4	5/10	SS	CRYSTOLON SICKLE & SCYTHESTONE, COARSE	TJ3	61463687731			
TRADESMEN'S UTILITY STONES								
10 X 1-1/4 X 3/4	5/10	TS	CRYSTOLON TRADESMEN'S STONE, MEDIUM	JT910	61463687665			
14-3/4 OVERALL	5/10	TS	CRYSTOLON TRADESMEN'S STONE, COARSE/FINE CRYSTOLON TRADESMEN'S STONE, MEDIUM	JT930 JT920	61463687675 61463687670			
GARDEN TOOL SHARPENER								
9-1/2 X 1-3/8 X 1/2	5/10	GT	CRYSTOLON GARDEN TOOL SHARPENER, MEDIUM	JT911	61463687746			
UTILITY FILE								
14 OVERALL	5/10	UF	CRYSTOLON UTILITY FILE, COARSE	JD2	61463687750			

RETAIL AND GIFT PACKS

				BETTER			
*	SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.	a
RE	TAIL AND GIFT	PACK	S				
G	3" DIA. X 5/8" THICK	50/50		SILICON CARBIDE AX & HATCHET SHARPENER (BULK)	JT3	61463690706	
G	3" LONG	50/50	FS	SILICON CARBIDE FISHERMAN'S STONE W/ POUCH (BULI	K)	61463624072	FS
G	3 X 7/8 X 3/8	50/50	I	CRYSTOLON POCKET STONE W/ CASE (BULK)	JP14	61463690703	
R G	3 X 1-1/2 X 1/2	1/10 50/50	I	SPORTING EQUIPMENT SHARPENER W/ CASE (CARDED) SPORTING EQUIPMENT SHARPENER (BULK)	IBP34 IBP34	07660787630 61463690705	
G G	6 X 2 X 3/4	50/50 50/50		HIGH QUALITY TOOL AND KNIFE SHARPENER (BULK) ECONOMY COMBINATION BENCHSTONE (BULK)	AE6 UPB6	61463690693 61463690694	I
R R	6 X 2 X 3/4 8 X 2 X 3/4	10/10 10/10	ı	ECONOMY TOOL AND KNIFE SHARPENER (CARDED) ECONOMY TOOL AND KNIFE SHARPENER (CARDED)	UPB6 UPB8	07660787933 07660787934	
R G	6-1/2 X 1-3/4 X 3/4	1/10 50/50	I	YANKEE CLIPPER BENCH STONE (BOX) YANKEE CLIPPER BENCH STONE (BULK)	APB6 APB6	61463685805 61463690696	
G	7-1/2 OVERALL	50/50	KK	SILICON CARBIDE KITCHEN KNIFE SHARPENER (BULK)	273A	61463690708	
R G	8 X 2 X 1	1/10 50/50	I	QUICKCUT COMBINATION BENCH STONE, (CARDED) QUICKCUT COMBINATION BENCH STONE (BULK)	UPB8 UPB8	61463685755 61463690695	KK
*R =	RETAIL, G = GIFT PACK						

RUBBING BRICKS

HAND RUBBING BRICKS

Hand Rubbing Bricks, manufactured with extra coarse silicon carbide abrasive, are available in three types...plain, fluted and fluted with handle.

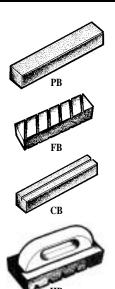
Plain Bricks are the choice of mechanics and foundrymen for dressing grinding wheels and cleaning or scouring castings.

Fluted Brick are used by masons and stone workers for rubbing down concrete and removing mold marks. The diagonal flutes provide sharp edges, a clean shearing action, and carry away debris.

Fluted Bricks with Handle make quick work of removing mold marks and rubbing down concrete. The firmly attached handle reduces fatigue and facilitates overhead, wall and floor work.

FLOOR RUBBING BRICKS

Silicon carbide Floor Rubbing Bricks are designed to fit the chuck of common concrete floor grinding equipment used for rubbing down concrete and removing mold marks.



			BETTER		
SIZE	MIN./ STD. PKG.	SHAPE	SPEC	PRODUCT NO.	UPC NO.
RUBBING BRICKS	;				
6 X 2 X 2	1/5	PB FB	CRYSTOLON PLAIN HAND RUBBING BRICK CRYSTOLON FLUTED HAND RUBBING BRICK	BP26 BF26	61463687820 61463687840
6 X 3 X 1	1/5	НВ	FLUTED HAND RUBBING BRICK W/ HANDLE	BFH6	61463687800
8 X 2 X 2	1/5 1/6	PB FB CB	CRYSTOLON PLAIN HAND RUBBING BRICK CRYSTOLON FLUTED HAND RUBBING BRICK CRYSTOLON FLOOR WITH CENTER SCORE	BP28 BF28 C10R C24R C80R C120R	61463687830 61463687845 61463685254 61463685255 61463685256 61463685296
8 X 3-1/2 X 1-1/2	1/5	НВ	FLUTED HAND RUBBING BRICK W/ HANDLE	235	61463687795
PACKAGE OF 6	6/6		WOODEN WEDGES FOR FLOOR GRINDING MACHINE		61463685297



