

Norton offers a line of both synthetic (Crystolon and India) and Natural (Hard and Soft Arkansas) abrasive benchstones. Choose one stone or a sequence of stones to quickly restore the cutting edge on all straight-edge tools.

All oil stones are porous in nature. Oil is required to keep the pores open and working efficiently.

Typical applications include restoring the cutting edge on straight-edged tools such as chisels, plane blades, wood lathe cutters, draw knives, spoke shaves, knives, and precision tools and delicate instruments.



SPECcheck

Benchstone 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 tool edge	Stone is too coarse Stone is too soft	Use a finer grit Use a different abrasive type
Tool edge breaks down quickly	Poor quality steel Edge too thin	Use higher quality tool 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 Check for wire edge Edge out of true (rounded corners)	Change bevel angle to duplicate original edge angle Remove wire edge by running across a piece of hardwood once or twice Vertically pass tool over benchstone to square corners

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 do gum-up or load, clean with kerosene or warm soapy water

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 an 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.



While sharpening knives, blades and tools, be careful to keep fingers away from sharp edges.

Single Grit Abrasive Benchstones

Single Grit Abrasive Benchstones

FEATURES	BENEFITS
<ul style="list-style-type: none"> • Crystolon – Premium silicon carbide abrasive 	<ul style="list-style-type: none"> • Fast cutting stone; ideal for general sharpening of cutting tools • Fast stock removal for quick edge shaping with minimal loading
<ul style="list-style-type: none"> • India – Smooth cutting aluminum oxide abrasive, our patent for a fine finish 	<ul style="list-style-type: none"> • Long lasting cutting edge • The choice of artisans, craftsmen and mechanics • Ideal for clean deburring, generating keen edges and quality finishes
<ul style="list-style-type: none"> • Arkansas – Natural premium Novaculite quarried in Arkansas and available in Soft and Hard Translucent 	<ul style="list-style-type: none"> • Sharpest possible razor edges • Near mirror finishes • Use for finer honing after India stone
<ul style="list-style-type: none"> • Ohio Bluestone – Soft-graded natural stone quarried in Ohio 	<ul style="list-style-type: none"> • Produces finely honed edges and excellent finishes

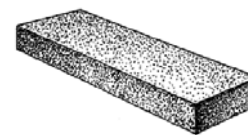


A TOOL IS ONLY AS GOOD AS ITS EDGE™

tips

BENCHSTONES

SIZE L x W x H	QTY. PKG.	QTY. CASE	SPECIFICATION	PRODUCT NO.	UPC NO.
CRYSTOLON (SILICON CARBIDE) BENCHSTONES					
SINGLE GRIT					
4 x 1 x 1/4	1	5	Coarse	CJB14	61463685470 0
4 x 1 x 1/4	1	5	Medium	MJB14	61463685465 6
4 x 1 x 1/4	1	5	Fine	FJB14	61463685460 1
4 x 1 x 1/2	1	5	Coarse	CJB24	61463685485 4
4 x 1 x 1/2	1	5	Medium	MJB24	61463685480 9
4 x 1 x 1/2	1	5	Fine	FJB24	61463685475 5
5 x 2 x 5/8	1	5	Medium	MJB35	61463685495 3
5 x 2 x 5/8	1	5	Fine	FJB35	61463685490 8
6 x 2 x 1	1	5	Coarse	CJB6	61463685510 3
6 x 2 x 1	1	5	Medium	MJB6	61463685505 9
6 x 2 x 1	1	5	Fine	FJB6	61463685500 4
8 x 2 x 1	1	5	Coarse	CJB8	61463685525 7
8 x 2 x 1	1	5	Medium	MJB8	61463685520 2
8 x 2 x 1	1	5	Fine	FJB8	61463685515 8
8 x 3 x 1/2	1	5	Coarse – Replacement Stone for IM83	CJB83	61463654459 5
8 x 3 x 1/2	1	5	Medium – Replacement Stone for IM83	MJB83	61463654458 8
8 x 3 x 1/2	1	5	Fine – Replacement Stone for IM83	FJB83	61463654457 1
11-1/2 x 2-1/2 x 1/2	1	2	Coarse – Replacement Stone for IM313	JM3	61463685980 4
11-1/2 x 2-1/2 x 1/2	1	2	Medium – Replacement Stone for IM313	JM6	61463685975 0
INDIA (ALUMINUM OXIDE) BENCHSTONES					
SINGLE GRIT					
4 x 1 x 1/4	1	5	Coarse	CB14	61463685580 6
4 x 1 x 1/4	1	5	Medium	MB14	61463685575 2
4 x 1 x 1/4	1	5	Fine	FB14	61463685570 7
4 x 1 x 1/2	1	5	Coarse	CB24	61463685595 0
4 x 1 x 1/2	1	5	Medium	MB24	61463685590 5
4 x 1 x 1/2	1	5	Fine	FB24	61463685585 1
5 x 2 x 5/8	1	5	Medium	MB35	61463685605 6
5 x 2 x 5/8	1	5	Fine	FB35	61463685600 1
6 x 2 x 1	1	5	Coarse	CB6	61463685620 9
6 x 2 x 1	1	5	Medium	MB6	61463685615 5
6 x 2 x 1	1	5	Fine	FB6	61463685610 0
8 x 2 x 1	1	5	Coarse	CB8	61463685635 3
8 x 2 x 1	1	5	Medium	MB8	61463685630 8
8 x 2 x 1	1	5	Fine	FB8	61463685625 4
8 x 3 x 1/2	1	5	Coarse – Replacement Stone for IM83	CB83	61463654462 5
8 x 3 x 1/2	1	5	Medium – Replacement Stone for IM83	MB83	61463654461 8
8 x 3 x 1/2	1	5	Fine – Replacement Stone for IM83	FB83	61463654460 1
11-1/2 x 2-1/2 x 1/2	1	2	Medium – Replacement Stone for IM313	IM6	61463654214 0
11-1/2 x 2-1/2 x 1/2	1	2	Fine – Replacement Stone for IM313	IM9	61463685970 5
ARKANSAS BENCHSTONES					
SINGLE GRIT HARD TRANSLUCENT ARKANSAS					
4 x 2 x 3/4-1	1	5	Ultra Fine	HB4	61463685655 1
6 x 2 x 3/4-1	1	5	Ultra Fine	HB6	61463685660 5
6 x 2 x 3/4-1	1	5	Ultra Fine w/ Wooden Box	HM6	61463685930 9
8 x 2 x 3/4-1	1	5	Ultra Fine	HB8	61463685665 0
8 x 2 x 3/4-1	1	2	Ultra Fine w/ Wooden Box	HM8	61463685935 4
8 x 3 x 1/2	1	5	Ultra Fine – Replacement Stone for IM83	HTB83	61463654464 9
11-1/2 x 2-1/2 x 1/2	1	1	Ultra Fine – Replacement Stone for IM313	HM11	61463685965 1
SINGLE GRIT SOFT ARKANSAS					
3 x 1 x 3/8	5	10	Extra Fine	SB13	61463687560 6
4 x 2 x 3/4-1	1	5	Extra Fine	SB4	61463685670 4
6 x 2 x 3/4-1	1	5	Extra Fine	SB6	61463685675 9
8 x 2 x 3/4-1	1	5	Extra Fine	SB8	61463685680 3
11-1/2 x 2-1/2 x 1/2	1	1	Extra Fine – Replacement Stone for IM313	SM11	61463653897 6
11-1/2 x 2-1/2 x 1	1	2	Extra Fine	SB11	61463653901 0
ECONOMY BENCHSTONES - OHIO BLUESTONE					
SINGLE GRIT (BULK PACKED)					
4 x 2 x 3/4-1	1	10	Medium	KB4	61463685720 6
6 x 2 x 3/4-1	1	10	Medium	KB6	61463685725 1
8 x 2 x 3/4-1	1	5	Medium	KB8	61463685730 5
OIL STONE STARTER KIT					
8 x 3 x 1/2	1	1	1 Medium, India, 1 Ultra Fine Hard Arkansas, 4.5 oz Oil and Instructional DVD		07660787942 4
OIL STONE INSTRUCTIONAL DVD					
N/A	1	1	Oil Stone DVD		07660787945 5



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

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