

No breaking, No cracking, No chipping
XEBEC Ceramic Stone uses the unique abrasive ceramic fiber instead of abrasive grains.

XEBEC® MADE IN JAPAN

Features

<Stick type>

- The original ceramic fibers are aligned from two directions
- Efficient polishing performance and strength
- High polishing capability on the tip

<Rod type>

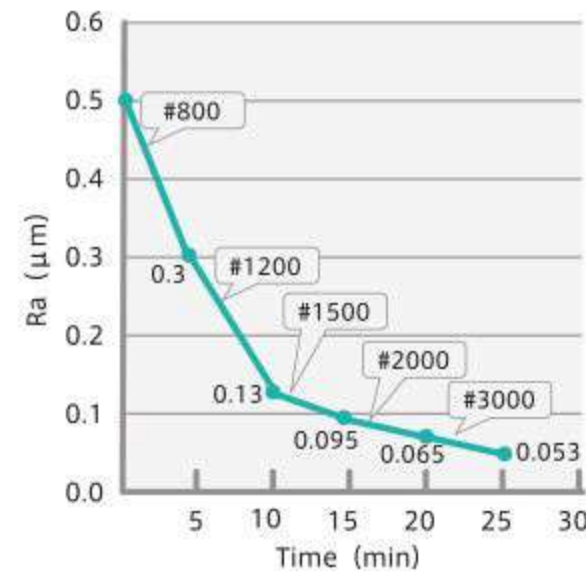
- Braided structure developed by the unique technology
- Cutting edges are exposed over the entire surface
- Both the tip and sides have high grinding power

How to select

Product name	Target material	Features
XEBEC Ceramic Stone™ Meister Finish Stick type and Rod type	Materials up to HRC57 (e.g. plastic mold steel, carbon steel)	・ For mold polishing and deburring ・ Best solution for removing EDM scales
XEBEC Ceramic Stone™ Pencil		・ For deburring and polishing of the narrow parts of molds and small parts
XEBEC Ceramic Stone™ Heat-Resistant		・ Heat resistant up to 200°C ・ Ideal for continuous use with an ultrasonic polisher ・ Can be used to polish deep slits of ribs
XEBEC Ceramic Stone™ Diamond	Materials harder than HRC57 (e.g. cemented carbide, hardened steel)	・ Efficiently polishes hard materials ・ Both the tip and sides can be used ・ Can be used with a vibratory tool for greater polishing efficiency
XEBEC Ceramic Stone™ Soft	Nonferrous materials (e.g. aluminum, copper)	・ Rubber binder allows soft contact with workpiece ・ Resistant to scratches and makes a shiney appearance

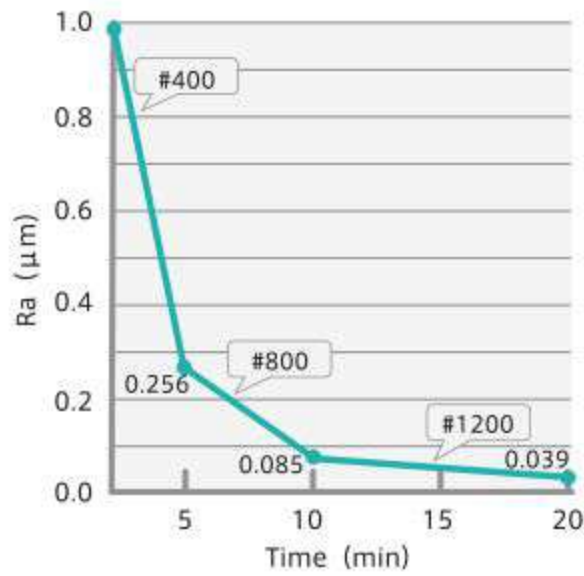
Finishing data

XEBEC Ceramic Stone™ Meister Finish



Material: NAK55 (HRC:40)
Polishing area: 30mm×15mm
Polishing method: Manual polishing with lubricant

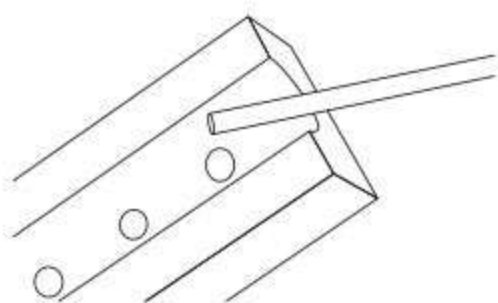
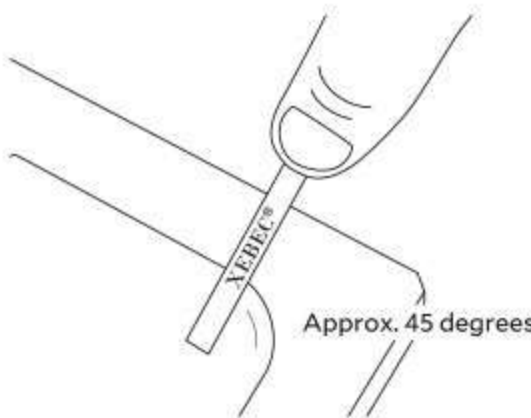
XEBEC Ceramic Stone™ Diamond



Material: D20 after wire cutting (HRA: 90)
Polishing area: 30mm×15mm
Polishing method: Pneumatic tool with lubricant

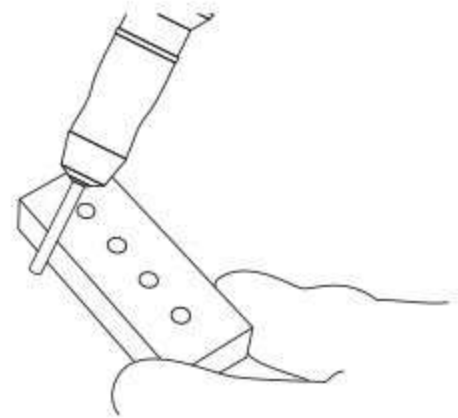
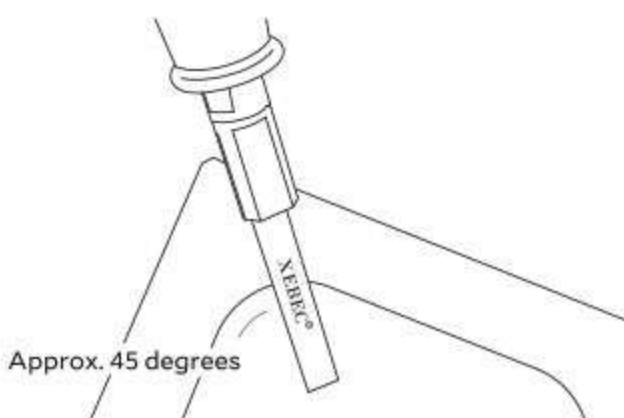
For effective use

The use of metal polish liquid prevents clogging and increases polishing efficiency.
Stick type : Press the tip against the surface at angle of approximately 45 degrees.
Rod type : The entire surface (tip and sides) has grinding power.
XEBEC Ceramic Stone™ Diamond : Contains diamond entirely, the side can be also used for polishing.



Usage of an option tool, a rotary tool, a vibratory tool

The tools can be used by directly holding in your hand, or can be used with the optional stick holder to improve work efficiency.
Stick type : Using with a vibratory tool (electric, ultrasonic and pneumatic) improves work efficiency.
Rod type : Using with a rotary tool (electric and pneumatic) improves work efficiency.
When using with a rotary tool, make a tool length less than 50mm and mount it on the rotary tool.
The recommended rotational speed : 7000min⁻¹
The maximum rotational speed : 30000min⁻¹
XEBEC Ceramic Stone™ Heat-Resistant : Can be used with an ultrasonic vibratory tool.



How to shape or form the tool tip

If the tip is worn out, form it with a diamond disk blade or grinder.
You can also customize the shape depending on the application or workpiece shape.

To shape the tip of the rod type finer, mount the tool on a rotary tool and rotate it for forming.
To cut off the tool, make a cut in both sides of the tool using a diamond disk blade etc.

Precautions for Use

- When using a vibratory tool or a rotary tool, please carefully read the instruction manuals and precautions for use attached to tools.
- When using rod type (φ2.34, φ3) with a rotary tool, use at less than the maximum rotational speed of 30000min⁻¹ and make a tool length less than 50mm.
- When using with an ultrasonic polisher:
 - ・ Check the appropriate output. Tools may break or generate heat when the output is too large.
 - ・ Check the appropriate length. If the length is inappropriate, tools may not vibrate or concentrated output may result in generating heat.
 - ・ Clamp the tool securely. Poor clamping may concentrate output, resulting in excessive heat generation.
 - ・ Carefully read the instruction manual of an ultrasonic polisher because polishing performance differs depending on clamping method.
- XEBEC Ceramic Stone Soft cannot be used with either rotary or ultrasonic tools.

Operation Safety Measures

- [Wear protective equipment]
Always wear protective goggles, gloves and masks when using the tool. Wear long sleeves, tight cuffs, and clothing to minimize skin exposure.
- [Pre-operation inspection]
When mounting on machines, insert the shank end all the way to the bottom of the chuck and secure it tightly. Stop the tool immediately if you find anything unusual. Shaft breakage, deformation or even tool breakdown may occur.
- [Beware of cutting particles]
Cutting particles and burrs may scatter within the work area as the tools revolve. Please stay clear of the area.
- [Caution to your surroundings]
The work area is hazardous in case flying pieces of fiber rods from the tools and cutting particles may scatter. Enclose the work area to prevent other people entering or have people wear protective equipment as well.

Warning

- Follow the precautions for use and operation safety measures without fail. If you fail to observe them, there are following risks.
- A tool or a part of a tool may crack, drop off, distort or break.
 - Broken pieces of a tool or cutting particles may stick into your skin, or at worst stick into your eyes, causing loss of sight.
 - Dust generated by processing may bring up skin irritation or allergy.

Please visit our website for details.

www.xebec-tech.com



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Your Order

XEBEC
Ceramic Stone™



XEBEC Ceramic Stone™ Meister Finish

Excellent for mold polishing and deburring



Stick type

Equivalent grit (color)	T×W×L (mm)													
	0.3× 4×100	0.4×4×100	0.5×4×100	0.5×4×150	0.5×6×100	0.5×6×150	0.5×10×100	0.5×10×150	0.8×4×100	0.8×4×150	0.8×6×100	0.8×6×150	0.8×10×100	0.8×10×150
#3000 (Pink)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
#2000 (Cream)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
#1500 (Yellow)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
#1200 (Red)	AR-0304M	AR-0404M	AR-0504M	AR-0504L	AR-0506M	AR-0506L	AR-0510M	AR-0510L	AR-0804M	AR-0804L	AR-0806M	AR-0806L	AR-0810M	AR-0810L
#1000 (White)	AW-0304M	AW-0404M	AW-0504M	AW-0504L	AW-0506M	AW-0506L	AW-0510M	AW-0510L	AW-0804M	AW-0804L	AW-0806M	AW-0806L	AW-0810M	AW-0810L
#800 (Blue)	AB-0304M	AB-0404M	AB-0504M	AB-0504L	AB-0506M	AB-0506L	AB-0510M	AB-0510L	AB-0804M	AB-0804L	AB-0806M	AB-0806L	AB-0810M	AB-0810L
#600 (Black)	AP-0304M	AP-0404M	AP-0504M	AP-0504L	AP-0506M	AP-0506L	AP-0510M	AP-0510L	AP-0804M	AP-0804L	AP-0806M	AP-0806L	AP-0810M	AP-0810L
#400 (Orange)	AO-0304M	AO-0404M	AO-0504M	AO-0504L	AO-0506M	AO-0506L	AO-0510M	AO-0510L	AO-0804M	AO-0804L	AO-0806M	AO-0806L	AO-0810M	AO-0810L
#300 (Light Brown)	AL-0304M	AL-0404M	AL-0504M	AL-0504L	AL-0506M	AL-0506L	AL-0510M	AL-0510L	AL-0804M	AL-0804L	AL-0806M	AL-0806L	AL-0810M	AL-0810L
#220 (Dark Brown)	AD-0304M	AD-0404M	AD-0504M	AD-0504L	AD-0506M	AD-0506L	AD-0510M	AD-0510L	AD-0804M	AD-0804L	AD-0806M	AD-0806L	AD-0810M	AD-0810L
#120 (Violet)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Equivalent grit (color)	T×W×L (mm)													
	1.0×4×100	1.0×4×150	1.0×6×100	1.0×6×150	1.0×8×100	1.0×8×150	1.0×10×100	1.0×10×150	1.5×1×150	1.5×4×100	1.5×6×100	1.5×6×150	1.5×10×100	1.5×10×150
#1500 (Yellow)	AY-1004M	—	AY-1006M	—	—	—	—	—	—	—	—	—	—	—
#1200 (Red)	AR-1004M	AR-1004L	AR-1006M	AR-1006L	AR-1008M	AR-1008L	AR-1010M	AR-1010L	AR-15015M	AR-1504M	AR-1504L	AR-1506M	AR-1506L	AR-1510M
#1000 (White)	AW-1004M	AW-1004L	AW-1006M	AW-1006L	AW-1008M	AW-1008L	AW-1010M	AW-1010L	AW-15015M	AW-1504M	AW-1504L	AW-1506M	AW-1506L	AW-1510M
#800 (Blue)	AB-1004M	AB-1004L	AB-1006M	AB-1006L	AB-1008M	AB-1008L	AB-1010M	AB-1010L	AB-15015M	AB-1504M	AB-1504L	AB-1506M	AB-1506L	AB-1510M
#600 (Black)	AP-1004M	AP-1004L	AP-1006M	AP-1006L	AP-1008M	AP-1008L	AP-1010M	AP-1010L	AP-15015M	AP-1504M	AP-1504L	AP-1506M	AP-1506L	AP-1510M
#400 (Orange)	AO-1004M	AO-1004L	AO-1006M	AO-1006L	AO-1008M	AO-1008L	AO-1010M	AO-1010L	AO-15015M	AO-1504M	AO-1504L	AO-1506M	AO-1506L	AO-1510M
#300 (Light Brown)	AL-1004M	AL-1004L	AL-1006M	AL-1006L	AL-1008M	AL-1008L	AL-1010M	AL-1010L	AL-15015M	AL-1504M	AL-1504L	AL-1506M	AL-1506L	AL-1510M
#220 (Dark Brown)	AD-1004M	AD-1004L	AD-1006M	AD-1006L	AD-1008M	AD-1008L	AD-1010M	AD-1010L	AD-15015M	AD-1504M	AD-1504L	AD-1506M	AD-1506L	AD-1510M
#120 (Violet)	AV-1004M	AV-1004L	AV-1006M	AV-1006L	AV-1008M	AV-1008L	AV-1010M	AV-1010L	—	AV-1504M	AV-1504L	AV-1506M	AV-1506L	AV-1510M

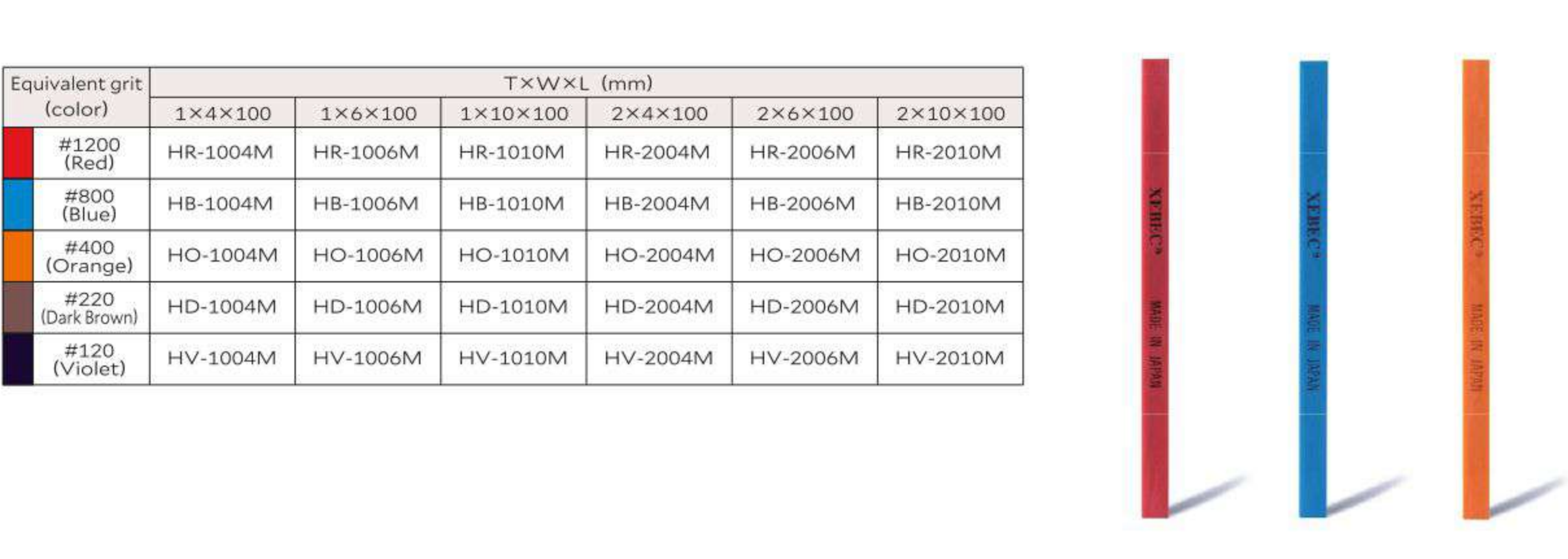
Equivalent grit (color)	T×W×L (mm)									
	2.0×4×100	2.0×4×150	2.0×6×100	2.0×6×150	2.0×10×100	2.0×10×150	3.0×4×100	3.0×6×100	3.0×10×100	3.0×10×150
#1200 (Red)	AR-2004M	AR-2004L	AR-2006M	AR-2006L	AR-2010M	AR-2010L	AR-3004M	AR-3004L	AR-3006M	AR-3006L
#1000 (White)	AW-2004M	AW-2004L	AW-2006M	AW-2006L	AW-2010M	AW-2010L	AW-3004M	AW-3004L	AW-3006M	AW-3006L
#800 (Blue)	AB-2004M	AB-2004L	AB-2006M	AB-2006L	AB-2010M	AB-2010L	AB-3004M	AB-3004L	AB-3006M	AB-3006L
#600 (Black)	AP-2004M	AP-2004L	AP-2006M	AP-2006L	AP-2010M	AP-2010L	AP-3004M	AP-3004L	AP-3006M	AP-3006L
#400 (Orange)	AO-2004M	AO-2004L	AO-2006M	AO-2006L	AO-2010M	AO-2010L	AO-3004M	AO-3004L	AO-3006M	AO-3006L
#300 (Light Brown)	AL-2004M	AL-2004L	AL-2006M	AL-2006L	AL-2010M	AL-2010L	AL-3004M	AL-3004L	AL-3006M	AL-3006L
#220 (Dark Brown)	AD-2004M	AD-2004L	AD-2006M	AD-2006L	AD-2010M	AD-2010L	AD-3004M	AD-3004L	AD-3006M	AD-3006L
#120 (Violet)	AV-2004M	AV-2004L	AV-2006M	AV-2006L	AV-2010M	AV-2010L	AV-3004M	AV-3004L	AV-3006M	AV-3006L

Rod type

Equivalent grit (color)	D×L (mm)									
	φ1×50	φ1×100	φ1.5×50	φ1.5×100	φ2×50	φ2×100	φ2.34×50	φ2.34×100	φ3×50	φ3×100
#1200 (Red)	PR-10S	PR-10M	PR-15S	PR-15M	PR-20S	PR-20M	PR-234S	PR-234M	PR-30S	PR-30M
#1000 (White)	PW-10S	PW-10M	PW-15S	PW-15M	PW-20S	PW-20M	PW-234S	PW-234M	PW-30S	PW-30M
#800 (Blue)	PB-10S	PB-10M	PB-15S	PB-15M	PB-20S	PB-20M	PB-234S	PB-234M	PB-30S	PB-30M
#600 (Black)	PP-10S	PP-10M	PP-15S	PP-15M	PP-20S	PP-20M	PP-234S	PP-234M	PP-30S	PP-30M
#400 (Orange)	PO-10S	PO-10M	PO-15S	PO-15M	PO-20S	PO-20M	PO-234S	PO-234M	PO-30S	PO-30M
#300 (Light Brown)	PL-10S	PL-10M	PL-15S	PL-15M	PL-20S	PL-20M	PL-234S	PL-234M	PL-30S	PL-30M
#220 (Gray)	PM-10S	PM-10M	PM-15S	PM-15M	PM-20S	PM-20M	PM-234S	PM-234M	PM-30S	PM-30M

XEBEC Ceramic Stone™ Heat-Resistant

Heat resistant up to 200 °C and suitable for continuous use with an ultrasonic tool



XEBEC Ceramic Stone™ Diamond

Suitable for materials harder than HRC57 such as cemented carbide and hardened steel (SKD, STAVAX, etc.)

Stick type

Equivalent grit (color)	T×W×L (mm)		
	1×4×100	1×6×100	1×10×100
#1200 (Moss Green)	DU-1004M	DU-1006M	DU-1010M
#800 (Gray)	DS-1004M	DS-1006M	DS-1010M
#400 (Blue Green)	DF-1004M	DF-1006M	DF-1010M
#200 (Black)	DM-1004M	DM-1006M	DM-1010M

Rod type

Equivalent grit (color)	D×L (mm)	
	φ3×50	φ3×100
#400 (Blue Green)	PDF-30S	PDF-30M

XEBEC Ceramic Stone™ Soft

Rubber binder allows soft contact and fits into a workpiece

Stick type

Equivalent grit	Product code	T×W×L (mm)
#1200	BS-2006M	2×6×100

Rod type

Equivalent grit	Product code	D×L (mm)
#1200	PBS-30M	φ3×100

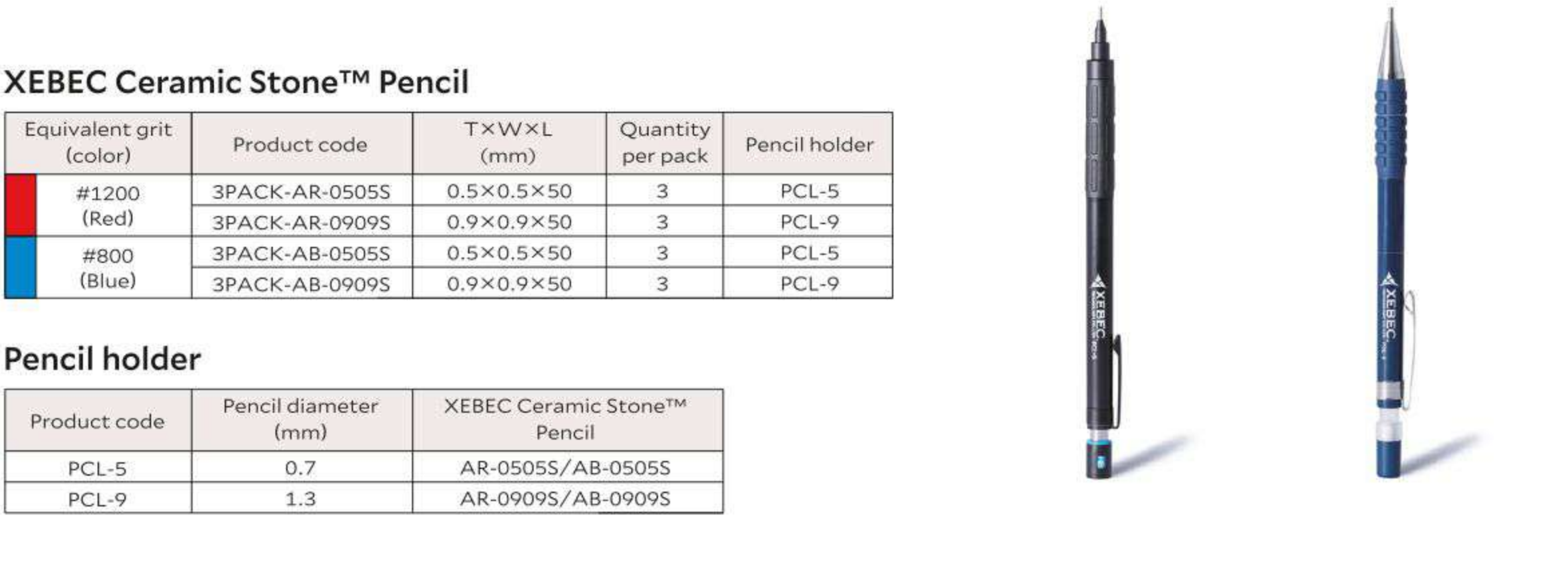
Precautions for Use

The tool may result in breakage when:

- being twisted.
- being mounted on a rotary tool, an ultrasonic tool or a vibratory tool.

XEBEC Ceramic Stone™ Pencil

Ideal for polishing and deburring engraved and narrow details of mold



XEBEC Ceramic Stone™ Pencil

Equivalent grit (color)	Product code	T×W×L (mm)	Quantity per pack	Pencil holder
#1200 (Red)	3PACK-AR-0505S	0.5×0.5×50	3	PCL-5
	3PACK-AR-0909S	0.9×0.9×50	3	PCL-9
#800 (Blue)	3PACK-AB-0505S	0.5×0.5×50	3	PCL-5
	3PACK-AB-0909S	0.9×0.9×50	3	PCL-9

Pencil holder

Product code	Pencil diameter (mm)	XEBEC Ceramic Stone™ Pencil
PCL-5	0.7	AR-0505S/AB-0505S
PCL-9	1.3	AR-0909S/AB-0909S

Stick holder for XEBEC Ceramic Stone™

Designed for XEBEC Ceramic Stone™ Meister Finish Stick type and Rod type

Stick type

Product code	Thickness of stick (mm)	Width of stick (mm)
SSH-1	0.5~3	1
SSH-2		2
SSH-4		4
SSH-6		6
SSH-8		8
SSH-10		10

Rod type

Product code	Diameter of rod type (mm)
SNH-20	φ2~2.34
SNH-30	φ3

Mobile Micromotor System

Designed for XEBEC products

Battery-powered tool which is usable where power supply is not available

An ultra lightweight handpiece reduces work burden for long time use

Product code	For use with	Maximum rotational speed (min ⁻¹)	Standard components
M2P33STX	φ3 mm shank	30000	Handpiece with stand, controller
On/Off foot switch, power cable for charging			

*About 5 hours of continuous use

