

## Instructions for Use

### BRASSELER USA BRIOPREP™ STERILE DIAMOND BURS

BRIOPREP™ STERILE DIAMOND BURS are available in Sterile models with numerous head diameters, shapes and working lengths.

#### Description

The BRIOPREP™ STERILE DIAMOND Dental Bur family includes Clinical Diamond Burs. A DIAMOND dental bur is a rotary abrading device made of stainless steel which is coated with diamond particles on the working end, and which is designed to fit into a dental handpiece.

#### Intended Use

BRIOPREP™ STERILE DIAMOND BURS fit into a dental handpiece, which provides the rotation, allowing the user to abrade hard structures in the mouth, e.g., teeth or bone. BRIOPREP™ STERILE DIAMOND BURS can also be used to abrade hard metals, plastics, porcelains and similar materials. These devices are not meant for reprocessing.

#### Warnings and Precautions

- BRIOPREP™ STERILE DIAMOND BURS are Single use. ② Devices marked as single use are not intended to be used on more than one patient.
- The device is to be used on the instruction of, or by a dentist or other licensed practitioner.
- Attention should be paid to the speed of work (RPM)
  - Always refer to the product packaging for the Maximum RPM. Use of the bur beyond the RPM range may cause the bur to break and result in patient or user harm.
  - Operating a bur with too high of an RPM may generate undesirable heat and cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Proper irrigation is required while using the device. Inadequate use of irrigation may generate undesirable heat and cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Do not apply excessive pressure on the bur as this could cause undesirable heat or may cause the bur to fail and cause patient or user injury.
- BRIOPREP™ STERILE DIAMOND BURS are labeled “Sterile” and require no further action prior to first use.
  - Use a rubber dental dam while using BRIOPREP™ STERILE DIAMOND BURS to avoid possible aspiration or swallowing of the device.
- Always wear gloves when handling contaminated instruments to avoid possible infection/cross-contamination.
- Carefully read package labels to ensure use of the appropriate device. Failure to do so may cause patient or user injury.
- Failure to follow these instructions may cause the following: preparation site damage, injury to the patient or user, or possible aspiration or swallowing of the BRIOPREP™ STERILE DIAMOND BUR.

#### Contraindications

- BRIOPREP™ STERILE DIAMOND BURS contain nickel and should not be used for individuals with known allergic sensitivity to this metal as it may cause hypersensitivity.

#### Precautions

- Always inspect the burs before use. Use of dull burs could cause undesirable heat or may cause the device to fail.
- Move the bur continuously when in use to avoid localized heating and/or damage to the bur. Undesirable heat generation can cause patient discomfort, tooth or tissue necrosis, or patient burns.
- Avoid removing the bur at too sharp an angle to avoid leverage and breakage and cause patient or user injury.
- Maintain handpieces in good working condition to ensure maximum effectiveness of the device. Failure to properly maintain handpieces may lead to injury of the patient or user, aspiration or swallowing of the device or damage to the preparation site due to vibration of a worn chuck or turbine.
- Ensure the bur is fully seated and securely gripped in the handpiece collet prior to use. Failure to do so may cause the device to “walk out” of the handpiece and may lead to injury of the patient or user or aspiration or swallowing of the device.
- Never force a bur or disc into a handpiece as this could cause damage to the handpiece collet.
- Eye protection must be worn to protect against eject particles.
- Surgical masks must be worn to avoid inhalation of any aerosol or dust generated.
- BUSA Bur Blocks used to hold the devices for storage and steam sterilization are not intended to maintain sterility of the device.

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- The bur pattern selected will be chosen to cut a specific material in a specific application. The following table gives guidance and provides recommended RPM.

Instrument head diameter 1/10 mm	Maximum permissible speed (RPM)	Recommended operational speed (RPM)
007 - 010	450,000	100,000 - 220,000
011 - 014	450,000	70,000 - 220,000
015 - 018	450,000	55,000 - 160,000
019 - 023	300,000	40,000 - 120,000
024- 027	160,000	35,000 - 110,000
028 - 031	140,000	30,000 - 95,000
032 - 040	120,000	25,000 - 75,000
041 - 054	95,000	15,000 - 60,000
055 - 070	60,000	12,000 - 40,000
080 - 100	45,000	10,000 - 20,000
019 - 023	300,000	40,000 - 120,000
024- 027	160,000	35,000 - 110,000
028 - 031	140,000	30,000 - 95,000
032 - 040	120,000	25,000 - 75,000

**Glossary of Symbols:**

[Brasselerusadental.com/resources/](http://Brasselerusadental.com/resources/)

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