

General Tips for Finishing and Polishing High Strength Ceramics

Handpiece Selection:

- Electric handpieces provide accurate speed control and consistent torque, which are critical when adjusting and polishing high strength ceramics
- Speed control and light hand pressure reduce heat generation and minimize microfractures

Tip for In-Office Milling (Cerec®/E4D®)

Lithium Disilicate (IPS e.max®)

- Blue state (pre-crystallized)
Pre-polishing prior to crystallization will ensure a smooth surface underneath the glaze, increasing the durability and life of the restoration

EXTRA-ORAL ADJUSTING AND POLISHING KIT (ITEM 4018)

Adjusting Tips for Grinders

- Coarse diamond instruments and traditional abrasive stones can generate high heat, causing microfractures, and are therefore not recommended
- Use light hand pressure
- Recommended speed: 8,000–12,000 RPM

Polishing Tips for Polishers

- Use light hand pressure
- Reduce speed with each polishing step to achieve an ultra-smooth surface
- Recommended speed: 7,000–10,000 RPM

Extraoral Adjusting

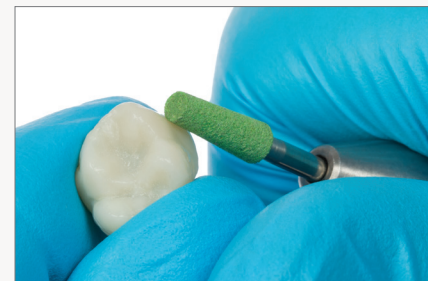
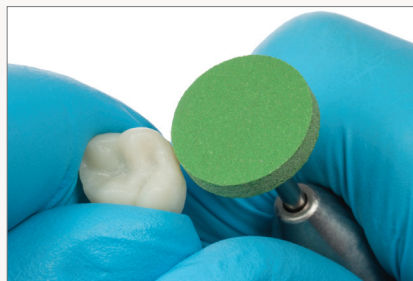
Jiffy® Universal Coarse Grinders (Green) are recommended for grinding down sprues and gross adjustment.

- 4238 Jiffy® Coarse Grinder Wheel (Green)
- 4239 Jiffy® Coarse Grinder Taper (Green)

Jiffy® Universal Medium Grinders (Yellow) are designed for adjustments of Lithium Disilicate, Zirconia, and Feldspathic porcelain.

- 4241 Jiffy® Medium Grinder Wheel (Yellow)
- 4242 Jiffy® Medium Grinder Taper (Yellow)

Recommended speed: 8,000–12,000 RPM



Extraoral Polishing and Finishing

Jiffy® HP Universal Wheels are designed to be used on axial walls, proximal contacts, and cusp areas.

- 4236 Jiffy® HP Medium Universal Wheel (Dark Orange)
- 4237 Jiffy® HP Fine Universal Wheel (Light Orange)

Recommended speed: 7,000–10,000 RPM



STEP 1

Use Jiffy HP Medium Universal Wheel to pre-polish.



STEP 2

Use Jiffy HP Fine Universal Wheel to create final polish.

Tips for Polishing

- The objective to polishing high-strength ceramics is to obtain a highly polished surface to minimize opposing dentition wear.

INTRA-ORAL ADJUSTING AND POLISHING KIT – (ITEM 4019)

Adjusting Tips for Diamonds

- Coarse diamond instruments can generate high heat, causing microfractures, and are therefore not recommended
- Use Jiffy® fine diamond instruments with copious amounts of water
- Use light hand pressure
- Recommended speed: 15,000–20,000 RPM

Polishing Tips for Polishers

- Use light hand pressure
- Reduce speed with each polishing step to achieve an ultra-smooth surface
- Recommended speed: 5,000–7,000 RPM

Intraoral Adjusting

Specifically designed particles of hybrid diamonds adjust all ceramics and minimize heat generation.

4087 Jiffy® Fine Football

4086 Jiffy® Fine Round End Taper

Recommended speed: 15,000–20,000 RPM
Use copious amounts of water



Use Jiffy Fine Football to adjust occlusal surfaces.



Use Jiffy Fine Round End Taper to adjust contacts.

Intraoral Polishing

Jiffy® Universal ceramic polishers are formulated to polish all high-strength ceramics in a simple two-step system.

4108 Jiffy® RA Medium Universal Point
(Dark Orange)

4234 Jiffy® RA Medium Universal Cup
(Dark Orange)

4109 Jiffy® RA Fine Universal Point
(Light Orange)

4235 Jiffy® RA Fine Universal Cup
(Light Orange)

Recommended speed: 5,000–7,000 RPM



STEP 1

Use Jiffy RA Medium Universal Point intraorally to pre-polish on occlusal and labial surfaces.



Use Jiffy RA Medium Universal Cup intraorally to pre-polish on cusp, labial, buccal, and cervical areas.



STEP 2

Use Jiffy RA Fine Universal Point intraorally to create final polish on occlusal and labial surfaces.



Use Jiffy RA Fine Universal Cup intraorally to create final polish on cusp, labial, buccal, and cervical areas.