

## 3M™ Trizact™ Polishing Pad HT-315-E

### Product Description

3M™ Trizact™ Polishing Pad HT-315-E is a microreplicated slurry lapping and polishing pad designed for finishing ultra-hard substrates, such as silicon carbide and ceramics. This pad is an alternative to the common copper composite platen and diamond slurry process. The Trizact pad includes a microreplicated surface; this pad produces a good surface finish with high removal rates when combined with a 3M™ Trizact™ Composite Slurry. This pad may be adhered to typical single- or double-sided lapping platens.

### Key Advantages

- Alternative to copper platen process with no need to re-groove copper platen and no copper in polishing waste
- Improved total thickness variation (TTV), removal rates and surface finish compared to copper platen process when used with 3M™ Trizact™ Composite Slurry
- Potential for improved productivity when using double-sided process compared to single-sided copper platen process
- Easy to use and install with peel-and-stick pressure sensitive adhesive (PSA)

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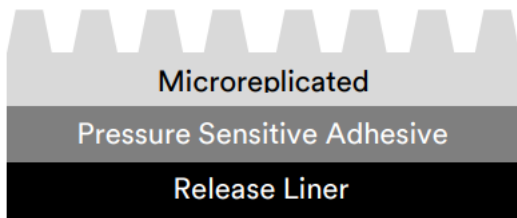


Illustration is not to scale, for reference only.

### Product Construction/Material Description

#### 3M™ Trizact™ Polishing Pad HT-315-E

Property	Value
Pad size	Diameters up to 50.5 inches (1282 mm)

### Applications

- Fine lapping for silicon carbide (SiC) zirconia (ZrO<sub>2</sub>), glass, silicon oxide and silicon materials.
- The pad may be used with either single-sided or dual sided lapping tools

### Application Techniques

- Use with a 3M™ Trizact™ Composite Slurry\*
- Clean platen and measure flatness before adhering pad
  - Recommended platen flatness for double-sided lapping is less than 10 microns for total thickness variations (TTVs) less than 5 microns
- Mount pad and drill the slurry holes if needed

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- Dress/condition the pad for approximately 10 minutes to planarize the pad asperities. Use empty resin/composite carriers (without workpiece) along with 3M™ Trizact™ Composite Slurry. Complete this step prior to lapping any workpiece.
- 3M recommends a continuous operating temperature of 60°C (140°F).
- The pad may be reconditioned if TTV exceeds your specification.

\*See the 3M™ Trizact Composite Slurry Technical Data Sheet for more information.

## Storage and Shelf Life

The shelf life of 3M™ Trizact™ Polishing Pad HT-315-E is 24 months from the date of manufacture when stored flat in the original packaging materials at 21°C (70°F) and 50% relative humidity.

3M recommends storing the Trizact polishing pad flat in the original packaging materials.

## Certificate of Analysis (COA)

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