Electronic Lapping with Trizact™ Diamond Tile

Faster cut rates - with less subsurface damage - boost productivity.

3M™ Trizact™ Diamond Tile abrasive pads not only remove material faster than coarse slurries or fixed pellets — they do it with fine diamond grades that limit damage to substrates. The result is dramatically reduced polishing time. In-plant studies demonstrate that the 3M lapping process can reduce overall process time nearly 60% for improved throughput.

Without the messy residue of slurry lapping, the process, equipment, and manufacturing environment are cleaner. You eliminate the hassle of slurry disposal and simplify waste management. 3M’s proprietary abrasives make electronic lapping less costly, both operationally and in terms of its potential effects on the environment.

Suitable for either single or double-sided lapping, the pads mount to existing machine plates with a pressure-sensitive adhesive. Production of silicon wafers and fabrication of metal, electronic, and optical products are among the applications for electronic lapping. This technology performs well on a variety of substrates:

- Fused quartz/fused silica
- Silicon
- Borosilicate glass
- Soda-lime glass
- Aluminosilicate glass
- Lithium niobate
- Crystalline quartz
- Sapphire
- Glass ceramic
If you’re doing laps, pick up the pace!
3M™ Trizact™ Diamond Tile lets you finish sooner.

3M™ Trizact™ Diamond Tile Pad Performance on Fused Quartz

3M™ Trizact™ Diamond Tile 677XA is available in 3, 6 and 9 micron grades and includes PSA backing. Trizact™ Diamond Tile can be custom converted to any diameter, with any hole size and hole configuration, for use on all double or single-sided lapping machines.

- For discs greater than 9" specify 3M™ Trizact™ Diamond Tile 677XA Type PC. Polycarbonate backing adds the rigidity required for larger discs.
- For discs or sheets smaller than 9” specify 3M™ Trizact™ Diamond Tile Type 677XA.

PRODUCT USE: All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user’s knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user’s method of application.

WARRANTY AND LIMITED REMEDY: Unless stated otherwise in 3M’s product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, packaging inserts or product packages.

LET us help you boost productivity with 3M™ Trizact™ Diamond Tiles. For further information, contact the 3M Customer Response Center at 1-800-362-3550.