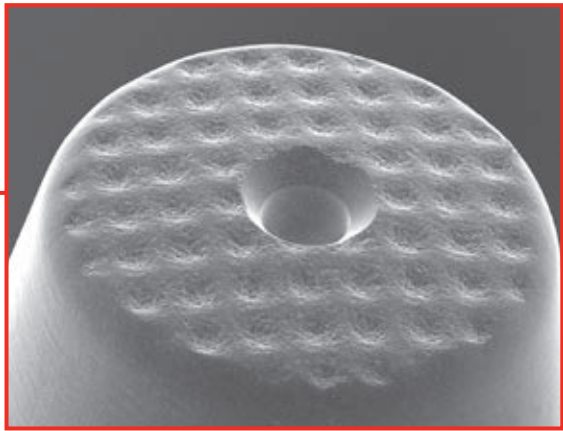


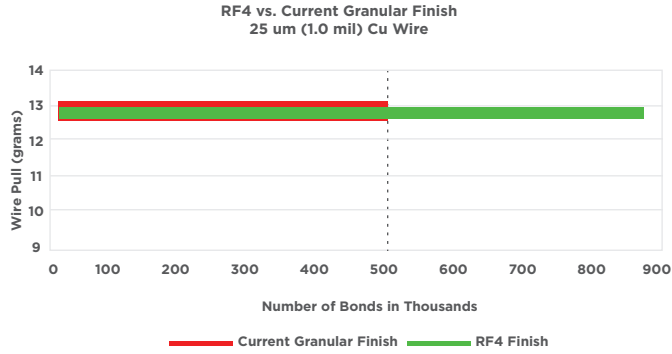


**GatorGrip™ RF4 Finish**  
Ceramic Capillary

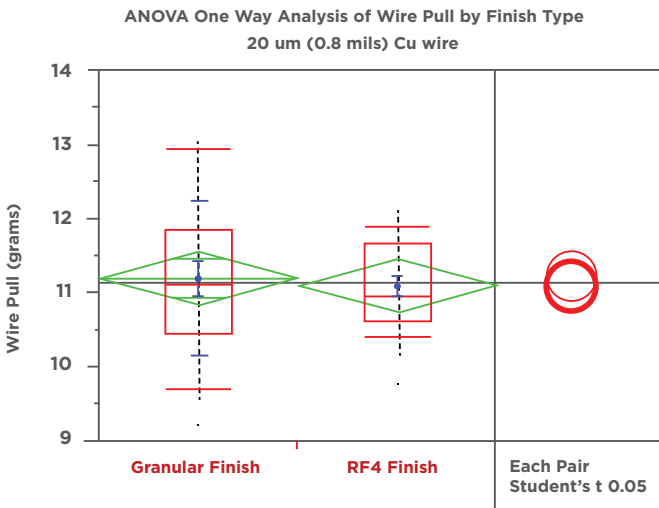


# Revolutionary New Finish for Copper Wire Bonding

CoorsTek Gaiser® Bonding Tools proudly introduces the GatorGrip™ RF4 capillary texture, the most aggressive capillary finish for the copper wire bonding process available in today's semiconductor packaging marketplace.

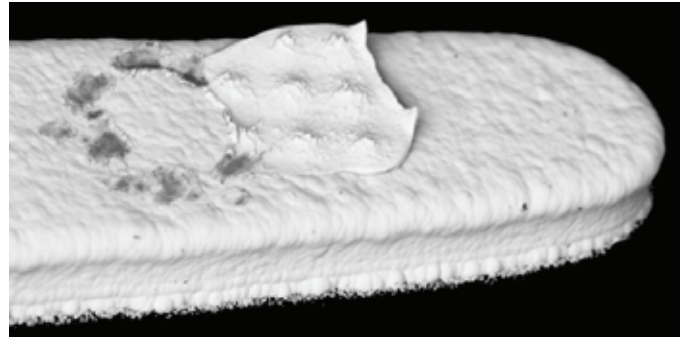


This game-changing finish is produced using a state-of-the-art process never before used in the manufacturing of wire bonding tools. Based on a combination of texture and geometry, this patent-pending process offers an evenly patterned roughness resulting in a more consistent and evenly spaced bond pattern. Testing has shown the RF4 is capable of achieving wire bonds up to twice the process window of existing finishes, with proven reliability and no additional wear to the tool — even under the most severe bonding conditions.



Tighter distribution improves bond repeatability.

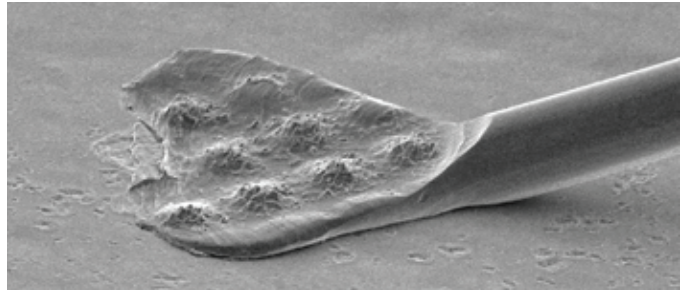
With a flexible design, the RF4 performs on any existing package surfaces and materials.



Full Cu stitch bond remain after wire pull

Additional advantages:

- Fully engineered design maximizes control of force component vectors during bonding
- Long-life performance with excellent reliability and repeatability
- Optimized performance for LEDs and other advanced semiconductor products
- Process transparency — requiring minimal updates to bond parameters



Evenly patterned texture creates exceptionally strong bonds.

## CoorsTek Gaiser Bonding Tools

CoorsTek Gaiser® precision ceramic wire bonding tools represent decades of material and design refinement recognized by users all over the world. We invented the ceramic capillary and continue to lead the market with innovative, high-durability designs and unparalleled support services.

With over 50 manufacturing locations across four continents, CoorsTek is the international partner of choice for high-performance semiconductor packaging tools. For more information, contact a CoorsTek Gaiser bonding tools expert today.

CoorsTek Gaiser Bonding Tools are manufactured in the USA. Graphs are intended to illustrate typical properties. Property values vary with method of manufacture, size, and shape of part. Data contained herein is not to be construed as absolute and does not constitute a representation or warranty for which CoorsTek assumes legal responsibility. GatorGrip is a trademark of CoorsTek, Inc. CoorsTek and Gaiser are registered trademarks of CoorsTek, Inc. .



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