



**New!**

# Diamond Pad Conditioner A4-Series for Oxide CMP

**The High Quality Conditioner for  
a Lower Cost of Ownership!**

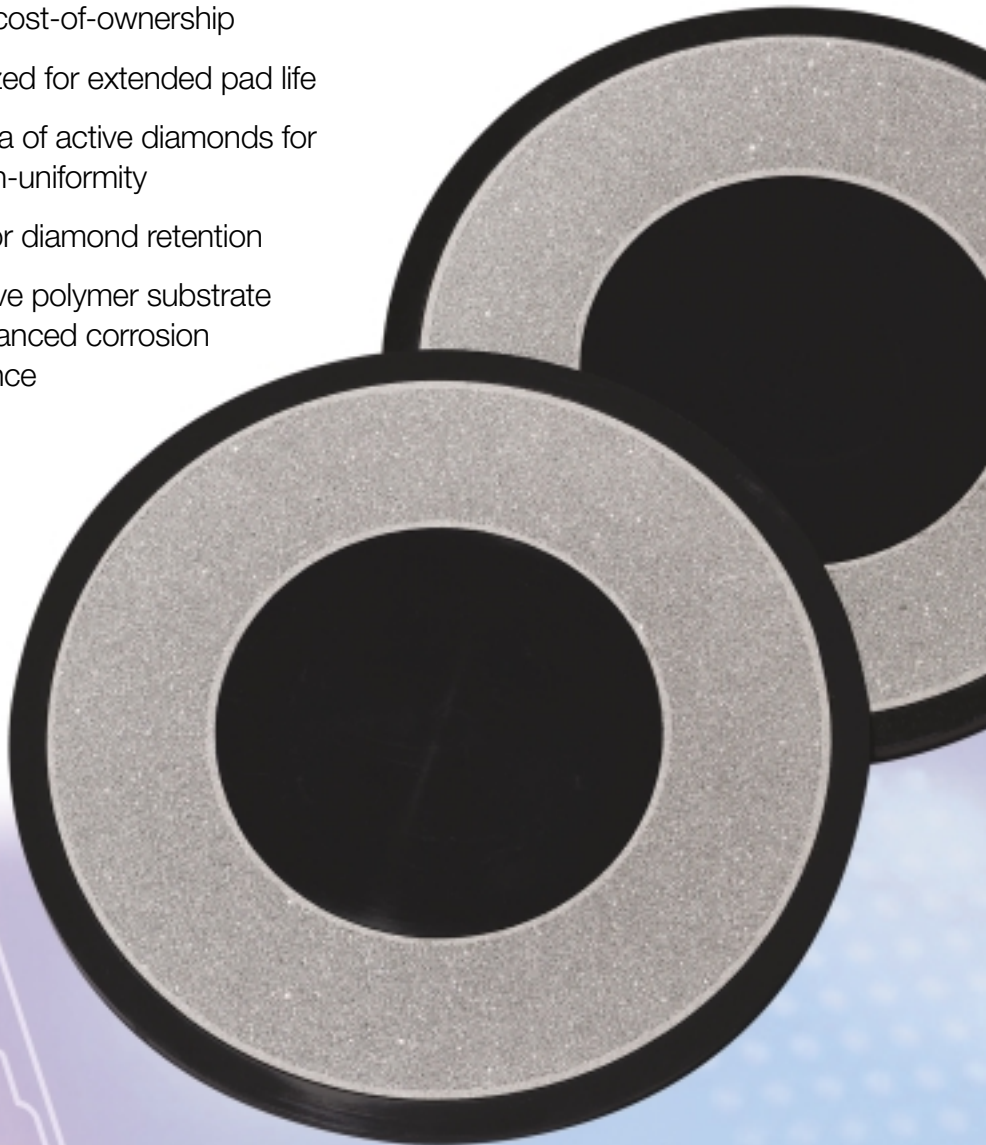
**3M's new A4 Series pad conditioners make  
it more affordable than ever to ensure  
consistent process performance, lot-to-lot.**

Like all 3M diamond pad conditioners, our new A4-Series products secure diamonds with both mechanical and chemical bonds, which helps prevent macro scratching from diamond loss. Plus 3M's diamond-free edge exclusion zone eliminates diamond fracture on the conditioner edges, where diamonds typically encounter maximum stress. Consistent product performance and improved diamond retention means lower defect rates, higher yield and more tool uptime!

The advanced design of these next-generation conditioners gives you reliable 3M performance. It also provides the benefits of a lightweight polymer substrate construction, including:

## **A4-Series Conditioners Features**

- Lower cost-of-ownership
- Optimized for extended pad life
- Flat area of active diamonds for low non-uniformity
- Superior diamond retention
- Exclusive polymer substrate for enhanced corrosion resistance



# Product Performance

## A4 vs A165 Split Lot Test

3M™ Diamond Pad Conditioner A4-55  
 Scatterplot of Polish Rate and Within Wafer  
 Non-Uniformity over No. of Wafers Processed

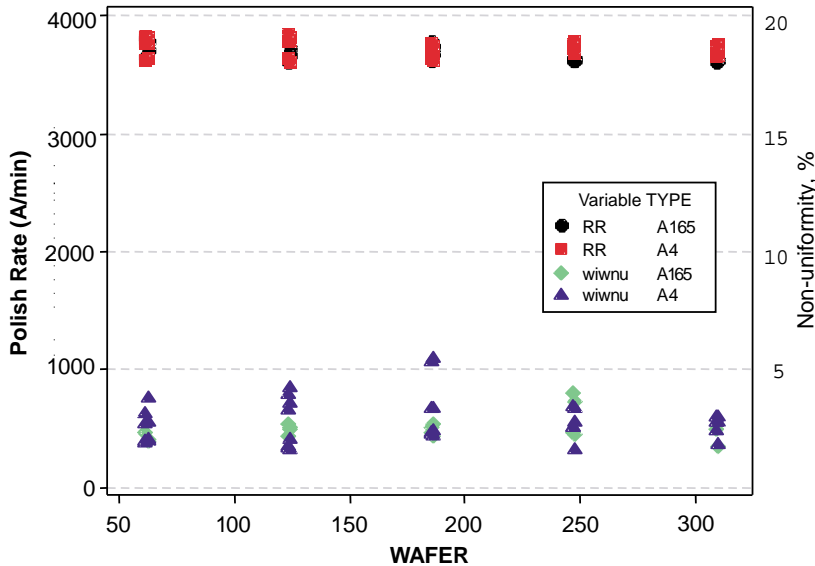
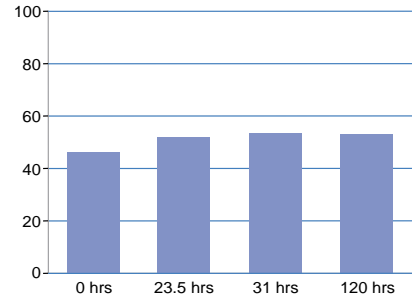


Illustration shows stable polish performance disk-to-disk & lot-to-lot (Uniform removal rate over time)

## Soak Test

3M™ Diamond Pad Conditioner A4-55  
 after 120 hours (5 days) in DI water



Illustrations show polymer substrate flatness is maintained over 5-day period, ensuring consistent performance

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