

ENGIS[®] MICROTECH CMP-D SLURRIES

Engis is Pioneering the Use of CMP-D Slurries to Replace or Augment Costly Traditional CMP Polishing with the Efficiency of Precisely Graded Micron Diamond in Specially Formulated Slurries

Cost Reduction - Reduced slurry consumption and waste disposal, elimination of pads, lower cycle times result in lower labor costs per piece



Throughput Improvement - Shorter cycle times and faster material removal rates.

Easier Cleaning - Slurries do not require acid cleaning steps like colloids, do not set up on the wafers like colloids - - - cleaning problems are the number one reason for wafer returns

Effective on Hard-to-Polish Materials - Chemical resisting materials and excellent on hard materials

Cleaners

- Water/Detergent-based
- Cleaner 4615—Sulfate base
- Cleaner 5128—Phosphate base
- Solvent based
- Hyprelube for Compound Cleaning
- 5772 Oil-based cleaner
- 6702-10 Solvent based cleaner
- 6702-23 Alcohol-based cleaner
- 6857-2 Light Oil Solvent-based cleaner

ADVANCED MATERIALS PRODUCTS

FOR ADDITIONAL INFORMATION CONTACT THE ENGIS MICROTECH TEAM AT

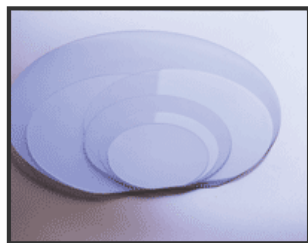
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Introduction to Engis Chemo-Mechanical Polishing with Diamond (CMP-D)

Rationale

- **COST REDUCTION**
 - REDUCED SLURRY CONSUMPTION AND WASTE DISPOSAL
 - LOWER CYCLE TIMES RESULT IN LOWER LABOR COSTS PER PIECE
- **THROUGHPUT IMPROVEMENT**
 - SHORTER CYCLE TIMES
 - FASTER MATERIAL REMOVAL RATES
- **EASIER CLEANING**
 - SLURRIES DO NOT REQUIRE ACID CLEANING STEPS LIKE COLLOIDS
 - DOES NOT SET UP ON THE WAFERS LIKE COLLOIDS
 - CLEANING PROBLEMS ARE THE NUMBER ONE REASON FOR WAFER RETURNS
- **EFFECTIVE ON HARD-TO-POLISH MATERIALS**
 - CHEMICAL RESISTING MATERIALS
 - EXTREMELY HARD MATERIALS



ENGIS IS ABLE TO DELIVER A COMPLETE SYSTEM TO FIT EACH CUSTOMER'S UNIQUE REQUIREMENTS AND OPTIMIZE THE MOST DEMANDING APPLICATIONS

- HYPREZ COMPOSITE LAP PLATES
- DIAMOND AND COLLOIDAL LAPPING & POLISHING SLURRIES
- LUBRICANTS & CLEANERS
- POLISHING PADS/CLOTHS
- WAFER MOUNTING EQUIPMENT
- CONDITIONING RINGS



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