



HMDS Vapor Prime Benefits vs. Spin Coating

For use with TA Series Ovens

1. Quality of Coating –

- a. Surface dehydration and subsequent vapor priming results in chemical bonding to surface hydroxyl ions, not weakly bound surface moisture.
- b. Resulting coatings are repeatable and stable for extended periods.

2. Efficiency of Chemical Usage –

- c. Uses less than 5 ml to coat up to 200 wafers.
- d. System uses pure HMDS so there is no possibility of variation due to changes in carrier concentration.



3. Waste Disposal

- e. Virtually no waste – no liquid solvents or residues to dispose of.

4. Flexibility of Substrate Size and Shape

- f. Any size and shape substrate can be treated with equal efficiency up to 16”.
- g. There are no issues with flow effects or substrate topology due to use of vapor.

5. Flexibility of Type of Substrate

- h. Delicate or difficult substrates can be accommodated with simple temperature or recipe changes.
- i. With no substrate movement during priming, there is no risk of breakage or other damage.

6. HMDS is stored in the system under vacuum

- j. Chemical does not degrade from exposure to moisture in the air.
- k. Operators are not exposed to fumes from the HMDS or carrier solvent.

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