Hex #: Equipment Information Sheet

Hot Phosphoric Tank

Manager: Dan Woodie
Backup: Phil Infante
Backup: 254-4891
Backup: 254-4926

Safety
- Follow all standard lab policies for use of chemicals
- System uses boiling phosphoric acid! Wear protective equipment when working at hood!
- When acid is boiling it gives off a significant amount of acid fumes. Open lid slowly to avoid acid fume exposure.
- Keep lid closed except when loading or unloading wafers.
- User must remain in lab during all operation of this tank.

Process Restrictions
Material Restrictions
- MOS compatible substrates only!
- Silicon nitride etching only
- Teflon boats only!

Parameter Restrictions
- Do not change any controller settings.

Scheduling / Sign-up Restrictions
- None

Requirements (Do Every Time)
- Sign into hood before starting work. Chemical buddy required outside of normal business hours (8 AM - 6 PM).
- Wear proper protective equipment when working in hood (apron, face shield, green gloves).
- User must remain in lab during all operation of this tank.

Prohibitions (Never Do)
- No room temperature etching.
- No metal etching.

Common Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Root Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low level alarm</td>
<td>[TK6 Heat On] switch not on</td>
<td>Turn tank heaters on</td>
</tr>
<tr>
<td>Low level alarm</td>
<td>Tank level low</td>
<td>Contact staff. Do not add chemicals!</td>
</tr>
</tbody>
</table>

Other Comments or Cautions

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

Safety
- System uses Nanostrip, an aggressive oxidizing acid solution. Review MSDS for material before using.
- All chemical hood safety gear required.
- Do not strip thick waxes. Violent reaction may occur.

Process Restrictions
Material Restrictions
- No waxes or other thick organic films. If you are uncertain, check with staff before stripping substrates.
- Teflon boats only!

Parameter Restrictions
- Do not add anything to bath.

Scheduling / Sign-up Restrictions
- None

Requirements (Do Every Time)
- Sign into hood before starting work. Chemical buddy required outside of normal business hours (8 AM - 6 PM).
- Wear proper protective equipment when working in hood (apron, face shield, green gloves).

Prohibitions (Never Do)
- DO NOT add Nanostrip or water to tank!
- DO NOT strip waxes.

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