Guide to using Vented Caps and Closures

Which Chemical is used?

- Sodium Hypochlorite, Hydrogen Peroxide or dry products
- Sodium Hypochlorite or Hydrogen Peroxide with a surfactant & products with low surface tension
- Liquids which ferment e.g. fish fertilizer, molasses

Use PTFE vent
- For hydrophobic, high surface tension liquids

Use Super Resistant Vent (SRV)
- For oleo-phobic, low surface tension liquids

SRV depends on closure – refer to our closure chart or contact us for options

Teflon Membrane (PTFE Polytetrafluoroethylene)

### Use PTFE for:

<table>
<thead>
<tr>
<th>Products that ONLY Contain:</th>
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<tbody>
<tr>
<td>Bleach (Sodium Hypochlorite) &amp; water</td>
</tr>
<tr>
<td>Hydrogen Peroxide &amp; water</td>
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<tr>
<td>Dry products</td>
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</tbody>
</table>

Such As:
- Pool bleach
- Pool shock
- Powders or tablets

PTFE membrane is recommended for use on hydrophobic (water repellent) high surface tension, liquids. PTFE has limited applications. Used with permission from Performance Systematix Inc.

### Use Super Resistant Vents for:

<table>
<thead>
<tr>
<th>Products Containing ANY:</th>
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<tbody>
<tr>
<td>Surfactants</td>
</tr>
<tr>
<td>Soaps</td>
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<tr>
<td>Detergents</td>
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<tr>
<td>Solvents</td>
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<tr>
<td>Solvents</td>
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<tr>
<td>Acids</td>
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<tr>
<td>Alcohol</td>
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<td>Fragrance</td>
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</tbody>
</table>

Such As:
- Household & industrial cleaners
- Liquid fertilisers
- Molasses
- Degreasers
- Scentsbleach
- Essential oils

Super Resistant Vents (SRV) are recommended for solutions containing oleo-phobic (oil repellent) low surface tension liquids. We have SRV options suitable for a wide range of applications including any application that PTFE is suitable for.

Vent Hole Size:

- **2mm** - PTFE vents will have a 2mm hole
- **4mm** – SRV done in 3 Swans workshop will have a 4mm hole

NB. Hole size on factory produced vented closures varies depending on closure size and vent type, from 1-6mm. Some SRV do not require an external hole to vent.

Usage notes when using any vent:

- Be sure to allow adequate head space in the container. We suggest a minimum of 5%-10%
- Insufficient head space can cause leakage or plugging of the vent.
- Following filling 'Tip & Test' is recommended to ensure caps are on correctly and vent is functioning
- Container must be transported and stored in an upright position.

This information is intended for use in product evaluation, under your specific end use conditions, at your own discretion and risk.

Please Note:
For the health & safety of our staff, and the integrity of your product, only clean unused closures will be vented. Please refer to our Policy on Venting Dirty Caps (available on our website).

If in any doubt please contact us: 3 Swans Ltd. ph 07 8509581, email info@3swans.co.nz, web www.3swans.co.nz

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