Thermochromic Inks

Reversible Thermochromic

Irreversible Thermochromic
Thermochromic inks

- **Reversible Thermochromic**
  - From colour to colourless or colour to colour
  - Changing for Cold or Hot (-10°C to 65°C)
  - Can be used as temperature indicator for beverages, medicines and food. Also tamper evident for tickets

- **Irreversible Thermochromic**
  - From colourless to colour
  - Limited shades & Temperature changes
Thermochromic inks

Reversible products

* Screen printed with TSS

Touch me and...
feel the heat.

Flint Group
Narrow Web
## Thermochromic inks

**Range**

<table>
<thead>
<tr>
<th>Thermochromic</th>
<th>UV Screen</th>
<th>UV Flexo</th>
<th>UV Offset</th>
<th>UV LP</th>
<th>WB Flexo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reversible</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Irreversible</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>● ● ●</td>
</tr>
</tbody>
</table>

- ● ● ● Highly recommended
- ● Limited use
- - Not recommended
Thermochromic ranges

- UV Letterpress (TSU)
  - UV curing letterpress/offset range
- Uvoglow S (TSF)
  - UV curing flexo range
- UV Screen (TSS)
  - UV curing rotary screen range
- Waterbased Flexo (TSH)
  - WB flexo range
# Print Advice - Thermochromic inks

<table>
<thead>
<tr>
<th>Parameter</th>
<th>WB Flexo</th>
<th>UV Flexo</th>
<th>UV Offset</th>
<th>UV Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anilox Lines/cm</td>
<td>80-160</td>
<td>80-160</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Vol cm³/m²</td>
<td>7 - 12</td>
<td>7 - 12</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Screen type</td>
<td></td>
<td></td>
<td></td>
<td>KS</td>
</tr>
<tr>
<td>Gallus</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Stork</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13%</td>
</tr>
<tr>
<td>Approx film weight (g/m²)</td>
<td></td>
<td></td>
<td>1,8-2,5</td>
<td>-</td>
</tr>
<tr>
<td>UV Lamp (W/cm)</td>
<td></td>
<td>160</td>
<td>120</td>
<td>160</td>
</tr>
<tr>
<td>Print speed (m/min)</td>
<td>40-60</td>
<td>40-80</td>
<td>40-60</td>
<td>40-60</td>
</tr>
</tbody>
</table>