Ready for a revolution?

COOL CHEMISTRY

Total wash concept for the gentle but highly effective treatment of healthcare linen

- Outstanding disinfection properties from 40° C onwards
- Excellent stain removal
- pH neutral process
- Prolonged textile lifetime

RKI-listing certified at 60° C

PASSIONATE ABOUT LAUNDRY
Christeyns developed **Cool Chemistry**, a total wash concept that has an impact on nearly all laundry costs. **Cool chemistry** is based on truly innovative chemicals, combined with an adapted and well balanced wash process. **Cool Chemistry** offers the possibility to wash at lower temperatures, with excellent wash quality, bleaching and disinfection results from 40° C onwards.

### Components

#### Brand-new chemicals

- **Detergent:** **Cool Care**
  - Innovative surfactants and an enzymatic cocktail, active from 40° C onwards
- **Disinfectant:** **Cool Asepsis**
  - Great bleaching and disinfection from 40° C
  - No smell
  - Compliant with EN1276, EN1650 and EN13704

#### Adapted wash process

- Neutral pH
- Less salts
- Low temperature possible
- Can be used in all existing process set-ups

### Standard process set-up healthcare *

```
Detergent → Prewash → Main wash → Rinse → Press
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* depending on textile classification and loading

### Benefits

- **QUALITY**
  - Excellent disinfection results (RAL 992/2/1)
  - For residents own textiles (RAL 992/4)
  - Longer textile lifetime
  - Avoids recontamination of the textiles

- **OPTIMISED OPERATIONS**
  - Robust process at neutral pH
  - Lower temperatures
  - Lower conductivity
  - Reduced carbon footprint

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**Test results**

- Wash quality of flat linen and undergarment

<table>
<thead>
<tr>
<th></th>
<th>Flat linen</th>
<th>Undergarment</th>
</tr>
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<tbody>
<tr>
<td>Temperature</td>
<td>70° C → 50° C</td>
<td>85° C → 40° C</td>
</tr>
<tr>
<td>Disinfection</td>
<td>DES-CONTROLler® &gt; 10^6</td>
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<td>Rodac dry linen = 0 CFU / cm²</td>
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<tr>
<td>Water</td>
<td>Savings : 1 l /kg linen</td>
<td>Savings : 3.8 l /kg linen</td>
</tr>
<tr>
<td>Energy</td>
<td>Savings : 0.05 kWh/kg linen</td>
<td>Savings : 0.25 kWh/kg linen</td>
</tr>
<tr>
<td>Textile damage</td>
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<td>Only 6 % tensile strength loss (50 washings) at 40° C</td>
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<tr>
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**Case studies**

### Customer Flat linen

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<tr>
<td>Detergency / Street dirt</td>
<td>Reference process (70° C) → Reference process (55° C)</td>
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### Customer Undergarment

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**Customer Flat linen**

- Temperature: 70° C → 50° C
- Disinfection: DES-CONTROLler® > 10^6
- Press liquor < 100 CFU/ml
- Rodac dry linen = 0 CFU / cm²
- Water: Savings : 1 l /kg linen
- Energy: Savings : 0.05 kWh/kg linen
- Textile damage: Only 3 % tensile strength loss (25 washings) at 55° C
- Conductivity: Increase < 600µS/cm

**Customer Undergarment**

- Temperature: 85° C → 40° C
- Disinfection: DES-CONTROLler® > 10^6
- Press liquor < 100 CFU/ml
- Rodac dry linen = 0 CFU / cm²
- Water: Savings : 3.8 l /kg linen
- Energy: Savings : 0.25 kWh/kg linen
- Textile damage: Only 6 % tensile strength loss (50 washings) at 40° C
- Conductivity: Increase < 400µS/cm