COOL CHEMISTRY @ WORK



compliant with
EN 16616 & EN 14476
chemical-thermal textile
disinfection

COOL CHEMISTRY

Total wash concept for the gentle but highly effective treatment of white, blue and high-vis workwear

- EXCELLENT STAIN REMOVAL
- PROLONGED TEXTILE LIFETIME
- LESS SORTING & OPTIMAL LOADING
- OUTSTANDING DISINFECTION PROPERTIES FROM 40° C ONWARDS

PASSIONATE ABOUT LAUNDRY

CHRISTEYNS
LAUNDRY TECHNOLOGY



Concept

Cool Chemistry is a total wash concept for the gentle but highly effective treatment of linen, based on truly innovative chemicals and an adapted, 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

Innovative workwear chemicals

INCLUDING THE POWER OF ENZYMES

Detergents : main components

- **Surfactants** with a very high soil suspension capacity, especially suitable for polyester fibres.
- **Enzymes :** Cocktail of stain-specific enzymes that perform optimally at 45 °C - 60 °C and pH 10 – 10,6
- **Sequestrants :** Innovative mix of sequestrants that prevent the formation of iron hydroxide and that function optimally in a wide pH range.

White workwear	Blue & high-vis workwear
Cool Intense Cool Extract Green Power Classic	Cool Star Cool Shine Power Classic

Disinfectant : Cool Asepsis

- Great bleaching and disinfection from 40° C onwards
- No smell
- Compliant with EN16616, EN13624, EN13704, EN14476 and EN13727
- + Cool Intense = **VAH-listing certified at 60°C**

Adapted wash process

Lower temperatures

Less sorting needed, so the linen can stay together per customer → **Improved flow of the linen**

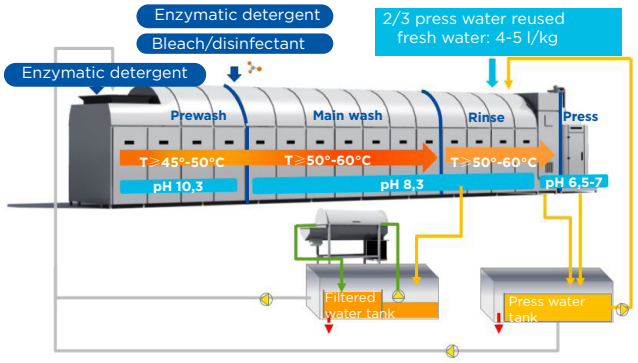
No cooldown needed → **More loading is possible**

90-95 %

Optimal reuse of press water

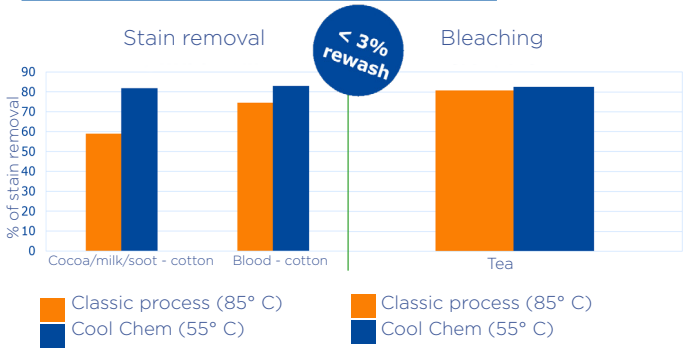
Rinsing is possible with less fresh water **(4-5 l/kg)**

Standard process set-up white workwear



Test results

Wash quality of white workwear



Case studies



Customer Food Industry

	Before ➡	After
Temperature	85 °C	55 °C
Rinse Water • Fresh • Reuse	 5 l/kg **1 l/kg**	 5 l/kg **3 l/kg**
Chemical damage	0.7%	0.1%
Strength reduction	23.4%	5.9%
Degree whiteness	222	223
Basic whiteness (Y-value)	88	89
Conductivity	Increase < 600 µS/cm	
Loading (tunnel 50kg)	40 kg	47 kg



Customer Industrial workwear

	Before ➡	After
Temperature	65 °C	55 °C
Rinse Water • Fresh • Reuse	 4 l/kg **2 l/kg**	 4 l/kg **4 l/kg**
Conductivity	Increase < 600 µS/cm	

Benefits

QUALITY

- Excellent stain removal
- Longer-lasting whiteness & brighter colours
- Perfect disinfection (white & high-vis)
- Longer textile lifetime
- Less wrinkling

OPTIMISED OPERATIONS

- Lower temperatures
- Optimal loading & less sorting
- Lower water consumption
- Robust process at lower pH



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