

OptiCare 60° 40°

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OptiCare 50° – the „CLEVER“ and intelligent washing process

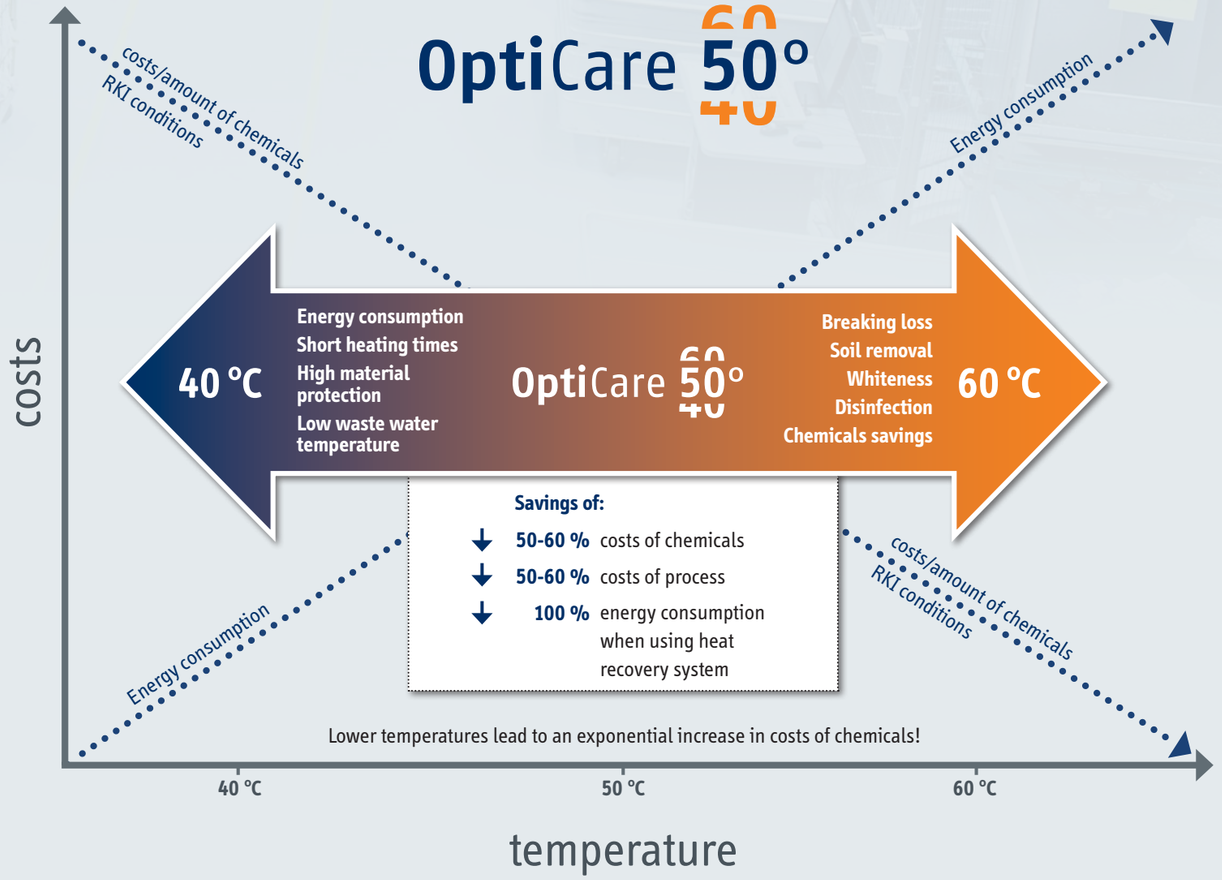
In laundries the demand on hygiene quality, safety and cost reduction is rapidly growing. Our goal was to bring out the best practice in terms of soil removal, dosing, energy, material conservation, wastewater and disinfection.

With OptiCare 50° we developed a process that takes the procedures within a laundry in its entirety into account – so cleanliness and hygiene is guaranteed without any compromise. On the same hand the OptiCare 50° process is an economical and resource-saving solution.

Why is 50 °C the OPTIMUM temperature?
At 50 °C your textiles will be brilliant white and stains will be removed without any problems. You reduce your chemical consumption and protect your textiles as well your pocket!

Optimal results at 50 °C:

- High fats dissolution
- Strong in soil removal
- Intelligent in energy usage (water and energy consumption)
- Secure in disinfection (Most germs do not survive at 50 °C)
- Excellent in the degree of whiteness
- Economical in the use of chemicals (because of temperature)
- High material protection
- Flexible washing process for a wide range of applications
- Environmentally friendly process that is completely free of NTA, EDTA and phosphates
- No calcification caused by hard water



OptiCare 50°

OptiCare 50° process also for you?

Industrial laundries, which recover heat from waste water and exhaust air, can optimize their energy usage with the OptiCare 50° process.

With this kind of modern innovation, freshwater can be heated up to 50 °C, which is the ideal temperature for the further processing of the laundry in the finishing area. The laundry can then be sorted and would still be warm enough to keep energy losses low during drying.

The current developments towards a "steam-free" laundry ,f.e. an increased use of gas in the finish area and/or the self-generation of energy by using renewable energy, is realised by the OptiCare 50° process in an optimal and consequent way. In addition to the energy savings, chemical usage is significantly lower, washing performance and stain removal are superior compared to a lower temperature laundry process.

OptiCare 50° is a flexible washing process for:

- Flat work
- Hotel laundry
- Hospital laundry
- Slightly dirty workwear
- Protective clothing/PPE
- White and coloured textiles

A 60 °C procedure is therefore not redundant because at 60 °C certain soil can be removed.

Safe and economical disinfection

Practical experience with lower temperatures than 50 °C shows that the disinfection effect as well as the quality standard for cleanliness is not achieved.

As a result, the washer increases the washing temperature to 50 °C/55 °C. This is to prevent a higher dosing quantity and thus leads to a significant increase in the cost of chemicals. An increase in chemicals would also increase the amount of surfactants, resulting in increased water consumption during rinsing and would possibly lead to foam problems in the press.

With the OptiCare 50° process, disinfectant costs are significantly lower in comparison to a 40 °C process. In case of variations in dosing, you are on the safe side regarding disinfection safety. For example: at 40 °C dosing quantities are approximately 8 times higher than at 60 °C.

Example: Dosing quantities peracetic acid:

	40 °C	50 °C*	60 °C
Detergent Dosing	**2.2 g/L**	**1.5 g/L**	**1.2 g/L**
Disinfection Chemicals Dosing	**7.0 g/L**	**1.8 g/L**	**0.8 g/L**
Application Time	**20 minutes**	**12 minutes**	**10 minutes**

*RKI application is prepared



OptiCare 50° – flexible in the use of products

Due to the flexible use of chemicals only the components and the quantities – which are actually needed – are dosed. This results in a very efficient and economical use of chemicals.

If disinfection is not requested, the OptiCare 50° process is nearly washing at a pH neutral base. This protects your textiles and your colours.

Depending on the type of textiles, the following products can be combined freely:

DERVAL POWER C
Highly concentrated one-shot detergent

DERVAL PROTECT
Wash power booster

OTTALIN BLANC*
Optical brightener for cotton and viscose

OTTALIN PA-CONC
Super concentrate for bleaching and disinfection

* **With** OTTALIN BLANC for white textiles
* **Without** OTTALIN BLANC for coloured textiles



Efficient – Ecological – Intelligent

For years now and with full conviction, we develop environmentally friendly products and deliberately refrain from the use of phosphates, zeolithes and NTA, in order not to pollute the environment with heavy biodegradable materials. It is a priority for us to combine ecological aspects without making compromises in washing quality.

OptiCare 50° – the environmentally friendly process

The OptiCare 50° process is environmentally friendly because it is free from phosphates, EDTA and NTA. Therefore, the pollution of our waters will be reduced in a tremendous way.

OptiCare 50° uses less energy and less fresh water. Only 4 litres of fresh water per kilogram of textiles are required for the washing process, and this fresh water is used exclusively for rinsing. Besides, at 50 °C washed warm textiles have lower residual moisture in comparison to at 40 °C washed textiles – this saves also the energy consumption during drying.

OptiCare 50° is responsible in handling resources because energy, water and chemical consumption are provided in an efficient way.

This is particularly suitable for the laundry, shows a responsible handling of resources and the environment, makes white brilliant white and saves money.

... because it's clever!

OptiCare 50°

Recommended products

Advantages at a glance:

- Strong in stain removal
- Intelligent in energy usage
- Secure in disinfection
- Excellent in degree of whiteness
- Economical in the use of chemical

Because it's clever!

Main products:

DERVAL POWER C
Liquid highly concentrated one-shot detergent without optical brightener. Excellent cleaning power for cotton and blended fabrics.

DERVAL PROTECT
Wash power booster for more efficient stain removal on synthetic and blended technical fabrics. For effective care at low alkalinity and temperatures between 40 – 60 °C.

OTTALIN BLANC
Brightener for cotton and viscose.

OTTALIN PA-CONC
Super concentrate for the bleaching and disinfection of textiles. Listed at 60 °C: RKI (Type A,B), DIN EN 1276 (bactericide), DIN EN 1275 (fungicide). 50 °C RKI application is prepared.

Additional products:

OTTALIN CITRO
Neutralizing agent for washing extractors and tunnel washers.

OTTALIN FINISH
Finishing agent with handle enhancing and antistatic properties for cotton and polycotton blends.

OTTALIN SOFT
Fabric softener with antistatic properties and a fresh scent.

OTTALIN ENZYM
Enzyme-complex concentrate for albumen break-down and fat removal during pre-wash.

OTTALIN SAVON
Liquid combination of native soaps to support the washing power of washer extractors and continuous batch washing machines.

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