

SMART AIR® / SMART UV POWER

Next level washing – DFA Technology

Our new Smart Air® washing process is based on the so-called DFA technology (DFA = **d**irect **f**og **a**pplication) - a very special nebulization application on textiles for any type of chemicals.

The micro-fine spray mist, consisting of an enzyme cocktail and surfactants (detergent), is applied directly to the soiled laundry so that no free liquor is produced in the pre-wash, thus saving an enormous amount of water, chemicals and energy, all in the interests of sustainability. This prevents overdosing and, above all, no expensive chemicals are unnecessarily transported into the sewer, which in turn also significantly improves the wastewater values!

With the innovative SMART AIR® process, enzymes, detergents, fabric softeners and FC-free products for water and oil repellency can be nebulized as so-called microbubbles and applied to textiles of all kinds in the pre-wash.

Smart washing with **SMART AIR®**. Wash efficiently, protect textiles and the environment with CHT.

In addition to the **SMART AIR®** washing process, the CHT Group focuses on ways to save water and energy. This goal can be achieved with the established **SMART UV POWER** washing process, an intelligent combination of physics and chemistry.

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany

Phone +49 7071 154-0
Fax +49 7071 154-290

www.cht.com
info@cht.com

Management:
Eva Baumann
Dr. Christian Rink

Company headquarters:
72072 Tübingen
Commercial register: AG Stuttgart
HRB 381373
USt.-IdNr. DE 152 274 099

Bank account:
Commerzbank Tübingen
IBAN DE13 6414 0036 0891 3832 00
BIC COBADEFFXXX

With over 300 UV-C systems, considerable amounts of water, energy, CO₂ and detergent have already been saved. Sustainability is achieved on several levels with SMART UV POWER because, on the one hand, UV-C technology improves the quality of the wastewater by significantly reducing COD and TOC values. On the other hand, with up to 30 % less chemicals, optimum stain and dirt removal and consequently the lowest rewash rates are achieved. One sign that SMART UV POWER works optimally is the minimal fiber damage with a very high basic whiteness value. Contamination in car washes is counteracted by the double disinfection effect, on the one hand by the UV-C energy and on the other by the hydrogen peroxide.

With SMART UV POWER, excellent washing results can be achieved while saving valuable resources and reducing the environmental impact. The hydrogen peroxide is activated by the UV-C energy, which means that the innovative washing process can also be used at low temperatures. For example, the washing temperature in the washing process can be reduced from 70 °C to 60 °C or even to 40 - 50 °C, whereby neither chlorine nor peracids are used.

Visit us **from 6.11. to 9.11.2024** at **Texcare** in **Frankfurt**, where you can get to know our innovative processes at our **booth A 31 in hall 8**.

Your CHT contact for SMART AIR®:

Prince Charles Stevens

Head of Business Field Washing Solutions

Phone: +49 7071 154 232

Email: charles.stevens@cht.com

About the CHT Group

The CHT Group is a medium-sized global player for specialty chemicals and active worldwide in development, production and sales. CHT Germany GmbH in Tübingen is the headquarters of the group of companies which focuses on sustainable chemical products and process solutions.

TEXTILE SOLUTIONS of CHT improve the quality, functionality as well as look and purity of textiles and optimize their manufacturing processes.

In the fields of silicones, building materials, paints, coatings, leather, release agents, paper, agrochemicals, mining as well as cleaning and care products innovative

products and process solutions are provided by the Business Field INDUSTRY SOLUTIONS.

By combining the strengths of the complete group further innovative products, applications or processes are continually developed and vast technical support is offered within the SCIENCE & SERVICE SOLUTIONS. Highly qualified specialists work in state-of-the art laboratories for development, analytics and application technique in order to work out ideas and solutions that meet the latest requirements.

The CHT Group with its own production and sales locations is represented by 28 companies worldwide. In the financial year 2023, the CHT Group generated a group turnover of 601 million Euro with around 2,500 employees.

For more information, please visit www.cht.com