

 chematic®
formulated detergents

PERSONAL CARE

HIGH PERFORMANCE EQUIPMENT CLEANING



SCIENCE WITH CLEANING

Every industry has its challenging residues.
We are experts at tackling every one of them.

We offer science with cleaning - unparalleled cleaning solutions, which match the right detergent to the right cleaning process. Our scientific approach includes understanding every aspect of your cleaning parameters and goals, so we can increase your production capacity, while reducing labor costs and cleaning time with cleaning recommendations that are optimized for your residue, your equipment, your safety, and your operational goals.

We use our decades of application research and development to produce value-adding solutions for our customers. We don't just make cleaning products. We develop comprehensive cleaning solutions to ensure that our customers achieve cleaning success. Our formulated detergents are part of an Application Cleaning Methodology (ACM) study, which provides customized cleaning recommendations. These recommendations ensure that our clients are able to meet market demands by maximizing the use of their assets with an efficient cleaning process that is tailored to their products and equipment.

OPTIMAL CLEANING: EFFICIENCY IS EVERYTHING

A ROBUST CLEANING PROCESS CAN:

- | | | | |
|----------|---|----------|--|
| 1 | Minimize
Equipment
Down Time | 3 | Ensure
Safety |
| 2 | Maximize
Use of
Assets | 4 | Achieve
Validated
State |

HOW DO YOU CLEAN?

How **effective** is your current cleaning process?

Does your cleaning process limit your production
and cause excessive downtime?

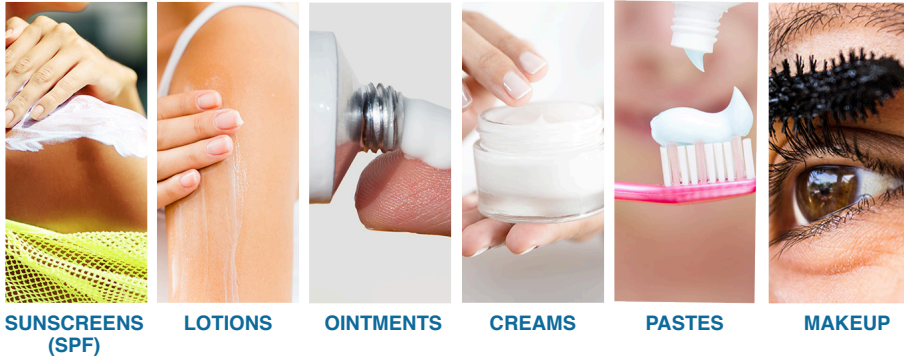
We deliver cleaning recommendations that are effective, compliant and deliver value. Effective cleaning is a combination of both physical and chemical processes. By understanding this combination and applying it to your specific residues and equipment, we deliver repeatable and reliable cleaning recommendations, which are optimized for your manufacturing. Furthermore, our recommendations deliver value by providing significant operational efficiency, safer operations and environmental advantages.

BUILDING BUSINESS EFFICIENCIES WITH A PROPER CLEANING PROCESS RESULTS IN:

↑	↑	↑	↓	↓	⊘
MAXIMIZE USE OF ASSETS	INCREASED PRODUCTION CAPACITY	MORE INDUSTRIAL GOWNING	REDUCED CLEANING TIME	REDUCED CONTAMINATION RISKS	ELIMINATES THE NEED TO RE-CLEAN

EXPERTS IN CLEANING CHALLENGING RESIDUES

The Personal Care industry includes a wide array of beauty care and over-the-counter products often times regulated by the Food & Drug Administration. These products include sunscreens, lotions, hair care and cosmetics. Residues and hazes left on the equipment are the result of using the wrong detergent, or perhaps the wrong detergent and the wrong cleaning process.



SUNSCREENS (SPF)

LOTIONS

OINTMENTS

CREAMS

PASTES

MAKEUP

LET'S GET STARTED! OUR PROCESS



APPLICATION CLEANING METHODOLOGY

We are experts in building business efficiencies through the research, testing, application and training of a proper cleaning process. As a result of our Application Cleaning Methodology (ACM) process we are able to deliver not only cleaning benefits, but bottom line improvements. With every ACM study we perform, we look to achieve a validated state and cost savings through maximized use of assets, increased production capacity, improved operator safety, reduced cleaning time and eliminated need for re-cleaning.

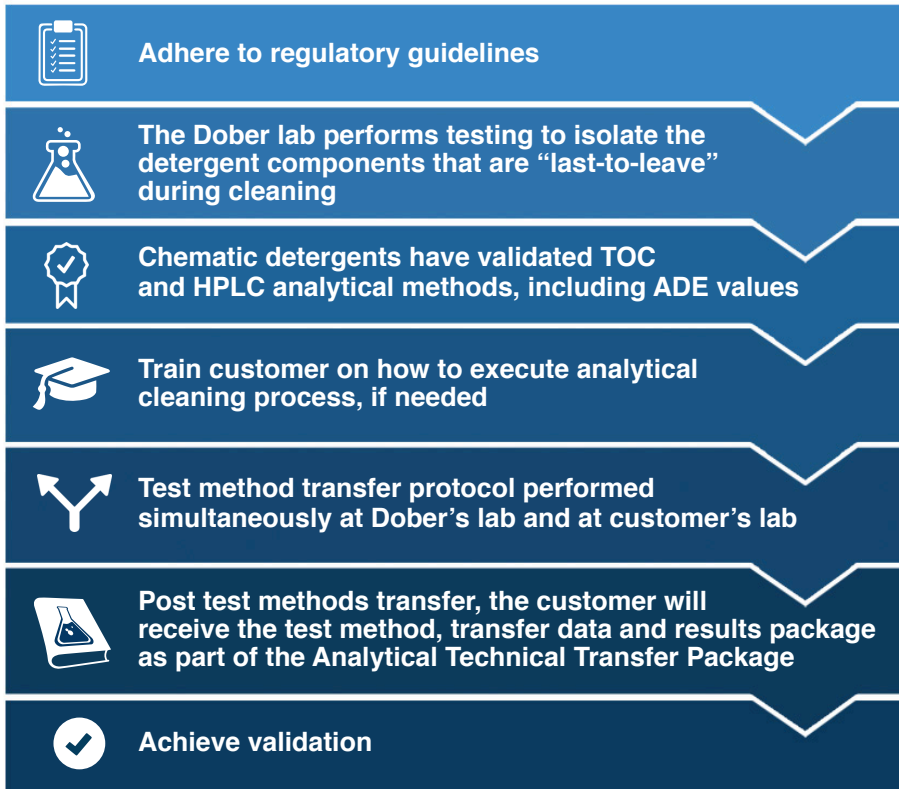


WE ASSIST YOU IN ACHIEVING YOUR TARGETED GOAL:
Our cleaning process recommendations and formulated detergents are proven to reduce operating costs.

DELIVERING & SUPPORTING ANALYTICAL CLEANING VALIDATION RESULTS

WITH THE ANALYTICAL TECH TRANSFER PACKAGE

We go above and beyond in helping our clients achieve a validated state. As part of our customer offering, we provide our clients an analytical technical transfer package that includes everything your lab needs to validate Chematic formulated detergents are effectively removed from process equipment after a high performance clean.



SCALING UP: WORKING TOWARD A VALIDATED STATE



DOBER FORMULATED DETERGENTS

PERSONAL CARE

CHEMATIC 630 Metal Oxides (Fe, Zn, Ti) Eudragit Coating Creams, Lotions, & Gels Cosmetics 	CHEMATIC 25 Metal Oxides (Fe, Zn, Ti) Creams, Gels, & Lotions Sunscreen SPF 	CHEMATIC 1 Metal Oxides (Fe, Zn, Ti) Eudragit Coating Creams, Lotions, & Gels Acryl EZE Cosmetics Sunscreen (SPF) Oral Suspension Ethyl Cellulose Silicone
CHEMATIC 640 Metal Oxides (Fe, Zn, Ti) Creams, Gels, & Lotions Sunscreen SPF Cosmetics Silicone 	CHEMATIC 670 Metal Oxides (Fe, Zn, Ti) Creams, Gels, & Lotions Sunscreen SPF Cosmetics Silicone 	CHEMATIC 8700 Creams, Gels, & Lotions Cosmetics
CHEMATIC 8711 Creams, Gels, & Lotions 	CHEMATIC 610 Metal Oxides (Fe, Zn, Ti) Creams, Gels, & Lotions Sunscreen SPF Cosmetics Silicone 	CHEMATIC 82 CHEMATIC 82EU Veterinary Products Steroids Creams, Lotions, & Gels Cosmetics Silicone Sunscreen (SPF) Media & Buffer Solutions



OUR COMMITMENT TO OUR CUSTOMERS

RIGOROUS STANDARDS

- ✓ Chematic production meets cGMP standards
- ✓ Complete lot traceability
- ✓ All raw materials are QC tested
- ✓ QC approval before release
- ✓ Product C of A's provided
- ✓ Change control policy

ADDITIONAL SERVICES & SUPPORT

- A cleaning process optimized for your equipment
- Analytical test methods provided under confidentiality
- Controlled formulation and detection method for all formulated Chematic detergents
- Cycle development assistance
- Committed to continuity of supply for the life of your product



11230 Katherine's Crossing | Woodridge, IL 60517



Toll Free | 1-800-323-4983 or Local | 1-630-410-7300



www.dober.com

DOBER