



chematic[®]
formulated detergents[®]

CASE STUDIES



Eudragit[®]

An Evonik product.

DOBER

Eudragit®

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DOBER



Q: What do you get when you combine the deep formulation and process understanding of Evonik with the high cleaning expertise of Dober?

A: Superior technical and application support that ensures both fast and effective cleaning processes with compliance documentation.

THE CLEANING CHALLENGE

Growing production demands have magnified the need to improve efficiencies in production processes and maximize use of assets.

CHEMATIC® SOLUTIONS & RESULTS

Chematic® Formulated Detergents are engineered to provide optimal cleaning results improve efficiency and achieve industry validation.

TIME



ACTION



CHEMISTRY



TEMPERATURE



Using Chematic's formulated detergents and processes not only help improve the TACT; Time, Action, Chemistry and Temperature involved in cleaning efficiencies, but our cleaning recommendations also benefit: **Safety, Validation Methods and ADE/PDE Values, and SAVE MONEY.**

CASE STUDY

EURAGIT® NE 30 D





60" Coating Pan – One production run, dirty hold time 24 hours

ORIGINAL INEFFICIENT PROCESS:

- Labor intensive process taking 8-16 hours
- Power washing and manual scrubbing to remove residue
- Residue peels and formations clog perforations
- Multiple variables produce scheduling conflicts and inconsistent cleaning



CHEMATIC® NE/NM: EURAGIT® NE 30 D 60" Coating Pan

PROBLEM	SOLUTION	RESULTS
 2 - 6 hours manual cleaning + 2 hours WIP/CIP cleaning Inconsistent cleaning impacts scheduling	Reduce cleaning time	15 - 30 minutes Manual + Under 2 hours WIP/CIP Significant time and cost savings
 Labor intensive; resulting in ergonomic issues	Improve operator safety Decrease manual labor	Safer process for operators Improved capacity
 Residue peels off & blocks perforations	More consistent cleaning Process using CIP	Chematic® NE/NM Cleaner Detergent dissolves residue
 60°C hot water rinses	50-60°C rinsing & washing	Cooler water temps

RESULTS:

90% REDUCTION IN CLEANING TIME
IMPROVED OPERATOR SAFETY WITH COOLER TEMPS
CHEMATIC® NE/NM TARGETS FORMULATION

ABOUT CHEMATIC® NE/NM

Chematic® NE/NM Cleaner is a specialty cleaner that was developed for the removal of EURAGIT® NE 30-D and associated coatings found in pharmaceutical manufacturing operations. This formulation readily penetrates and removes the multiple layers of product and polymer associated with the use of these coatings. Chematic® NE/NM Cleaner is effective in both manual and CIP applications.

CASE STUDY

EURAGIT® NE 30 D

Fluid Bed

ORIGINAL INEFFICIENT PROCESS:

- Inefficient cleaning process took three shifts
- Labor intensive cleaning process (manual scrubbing)
- Required two detergents plus a booster



CHEMATIC® NE/NM: EURAGIT® NE 30 D Fluid Bed

	PROBLEM	SOLUTION	RESULTS
	24 hours: 1st shift: 2xCIP with detergent 2nd shift: manual operator 3rd shift: 2xCIP with detergent	Reduce cleaning time Improve safety with no human intervention	Decreased cleaning time down to 4-5 hours Save 19-20 hours Significant time and cost savings
	1st shift: high pressure CIP 2nd shift: manual power - hand scrubbing & wiping 3rd shift: high pressure CIP	Lower pressure cleaning Eliminate manual scrubbing and wiping	CIP Spray devices with normal operating pressure
	1st, 2nd, & 3rd shifts: Alkaline with booster, rinse, acid detergent	Mildly acidic detergent	Chematic® NE Cleaner at 5% concentration
	1st, 2nd, & 3rd shifts: 40 - 65°C hot water washing	Cold water pre-rinse and rinse	Pre-rinse at 20°C, CIP wash at 65°C, final rinse with cold purified water

RESULTS:

OVER 79% REDUCTION IN CLEANING TIME
LABOR INTENSIVE MANUAL CLEANING ELIMINATED
CHEMATIC® NE/NM CLEANER EFFICIENTLY TARGETS FORMULATION

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CASE STUDY

EURAGIT[®] NE 30 D

Filter Bag

ORIGINAL INEFFICIENT PROCESS:

- Labor intensive cleaning process (manual scrubbing)
- Cleaning process is time consuming
- The hot temperatures and solvent raise safety concerns for handling operator



CHEMATIC[®] NE/NM: EURAGIT[®] NE 30 D Filter Bag

	PROBLEM	SOLUTION	RESULTS
	7-9 hours cleaning time	Reduce down time	1-2 hours cleaning time Save 6-7 hours Significant time and cost savings
	Very labor intensive; manual scrubbing & wiping	Improve safety Eliminate manual scrubbing by using soaking filters	Safety improved No manual cleaning
	Complicated cleaning procedure with hazardous detergents	No solvent required	Chematic [®] NE/NM Cleaner breaks formulation down
	60°C hot water washing	50°C rinsing & washing	Cooler water temps

RESULTS:

OVER 80% REDUCTION IN CLEANING TIME

NO MANUAL CLEANING

CHEMATIC[®] NE/NM EFFICIENTLY BREAKS DOWN FORMULATION

ABOUT CHEMATIC[®] NE/NM

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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

LET'S GET STARTED!
CONTACT US TODAY.

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