Chematic[®]

CASE STUDIES

Eudragit® An Evonik product.





DØBER

- 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.



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.





ORIGINAL INEFFICIENT PROCESS:

- Manual Cleaning
- Labor Intensive and takes 96 Hours to Clean
- Uses Sodium Hydroxide a Strong Alkaline
- Hot water washing and rinsing



CHEMATIC[®] RL/RS: EURAGIT[®] RS 30 D Tablet Coater

	PROBLEM	Solution	RESULTS
٢	96 hours = 4 days Very labor intensive Unsafe for operators	Reduce cleaning time Improve safety	Decreased cleaning time down to 4 hours Save 3.5 day of downtime Significant time and cost savings
9	Coater does not have WIP Power washing, manual scrubbing and wiping	Eliminate manual scrubbing	Detergent applied to chamber with pan
	Sodium hydroxide (NaOH) Strong alkaline	Mildly acidic detergent	Chematic [®] RS Cleaner dissolves the residue
	Hot water rinses and washes at 70-80°C	Cold water rinse and wash	Rinsing and washing at 50-60°C



95% REDUCTION IN CLEANING TIME 26% REDUCTION IN WATER TEMPERATURE CHEMATIC® RL/RS CLEANER EFFECTIVELY TARGETS FORMULATION

ABOUT CHEMATIC® RL/RS

Chematic[®] RL/RS Cleaner is a specialty cleaner that was developed for the removal of EUDRAGIT[®] RL/RS coatings found in pharmaceutical manufacturing operations. This formulation readily cleans the multiple layers of product and polymer associated with the use of these coatings. Chematic[®] RL/RS Cleaner is effective in both manual and CIP applications.





ORIGINAL INEFFICIENT PROCESS:

- Labor Intensive Manual Cleaning
- Excessive 24 hour clean time
- Used harsh solvents & scrubbing
- Results not reproducible; Varied Operator to Operator



CHEMATIC[®] RL/RS: EURAGIT[®] RS 30 D Fluid Bed

	PROBLEM	Solution	<i>P</i> RESULTS
٢	24 hours manual cleaning	Reduce down time	4 hours Save 20 hours Significant time and cost savings
9	Labor intensive; manual process involves power washing hand scrubbing & disassembly	Improve safety Decrease manual labor Eliminate scrubbing by using chemical spray wands	Safety improved No scrubbing Increased capacity
	Complicated cleaning procedure with hazardous detergents	Less complex process	Chematic [®] RL/RS Cleaner Detergent dissolves residue
	70-80°C hot water rinses	20°C Cold water pre-rinse 50-60°C rinsing & washing	Cooler water temps



80% REDUCTION IN CLEANING TIME INCREASED OPERATOR SAFETY SINGLE DETERGENT OPTION

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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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