

IN THE INTEREST OF YOUR SAFETY AND OUR ENVIRONMENT

We always play safe with chemicals. Our chemicals and detergents are manufactured in GMP production facilities and provide complete batch traceability, documentation and analysis certificates.

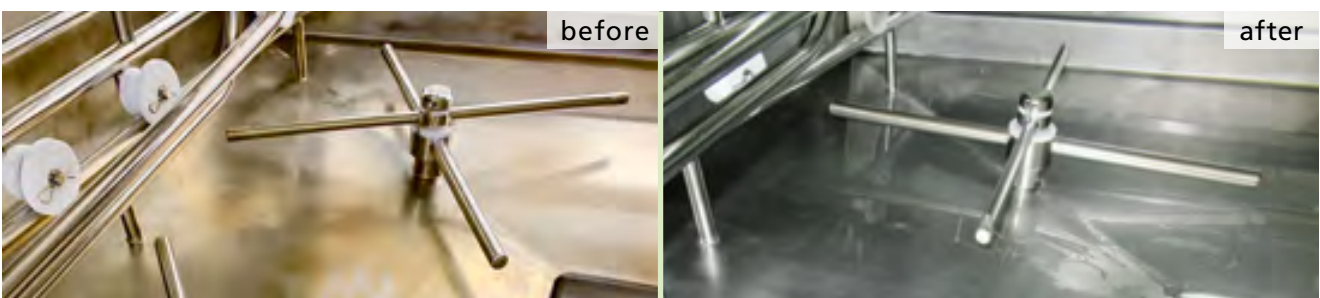
DIRUNEUTRA / DIRUPURE – process and cost optimisation thanks to neutral pH derouging A patented proprietary development by Ateco Tobler AG

Unfortunately, even the best stainless steel does not have entirely inert properties. The passive layer on the steel surface ages and forms a rust-red coating called rouging. This may release extraneous particles, which is unacceptable for safe process management.

Until now, strongly acidic cleaning solutions have been used to handle this oxide coating. But the intense chemical cleaning of the material surface also strips away chromium and nickel that require elaborate disposal.

DIRUNEUTRA and DIRUPURE – our pH neutral derouging products provide improved results while enabling more economic operations. It also reduces the hazard potential for employees and systems, as no strong acids are used.

Visible advantages at a glance:



- pH neutral
- short process times
- Effectiveness in a wide temperature range (20 – 85 °C)
- Environmentally friendly chemicals
- Supplied as concentrates

- no rinse water neutralisation required
- cost-efficient disposal of the derouging solution
- no damage or deterioration in the material surface
- no damage in the event of leaks
- No dangerous goods in terms of the transport regulations

“DIRU” PRODUCTS – SATISFYING YOUR CLEANING REQUIREMENTS

The comprehensive range of cleaning products developed in-house by Ateco Tobler supports you in the development of an effective, safe, eco-friendly and cost-efficient cleaning programme.

DIRUNEUTRA – pH-neutral, residue-free, validated derouging.

The DIRUNEUTRA system rapidly and effectively removes rouge from stainless steel surfaces and is available in sets for the preparation of 250 liters or 1000 liters working solution.

The use of DIRUNEUTRA is recommended

- for the flooding of production systems
- for derouging of transfer piping



DIRUPURE – pH-neutral, residue-free, validated derouging (without inert gas).

The DIRUPURE system rapidly and effectively removes rouge from stainless steel surfaces and is available in sets for the preparation of 50 liters, 250 liters or 1000 liters working solution.

DIRUPURE is used in ambient atmosphere without inert gas and is recommended

- for spray cleaning in CIP systems or automatic cleaning machines
- for automatic and semi-automatic cleaning with CIP and COP methods
- for derouging of transfer piping



Dirupass NB – pH-neutral, oxidising cleaning agent for passivating stainless steel surfaces.

Dirupass NB is used for residue-free processes in the chemical and pharmaceutical industries, biotechnology and the cosmetics industry.

The use of Dirupass NB is recommended

- for passivation following derouging with Diruneutra LIQ/P
- for initial passivation in conjunction with Diruclean NS
- for use as a cleaning intensifier



Diruclean NS – pH-neutral, residue-free, validated cleaning.

The residue-free cleaning of surfaces coming into contact with products is an important prerequisite for critical areas as well as for preparing the surface before passivation.

The use of Diruclean NS is recommended

- for spray cleaning in CIP systems or cleaning machines
- for automatic and semi-automatic cleaning with CIP and COP methods
- for flooding production systems



Diruclean BX – alkaline, residue-free, validated cleaning.

Very suitable for removing stubborn dirt and biofilms. The residue-free cleaning of surfaces coming into contact with products is an important prerequisite.

The use of Diruclean BX is recommended

- for spray cleaning in CIP systems or cleaning machines
- for automatic and semi-automatic cleaning with CIP and COP methods
- for flooding production systems



Dirupass AP – acidic, residue-free, validated cleaning.

Very suitable for removing temper colours, rust films and extraneous rust, silicate layers, protein incrustations as well as for the acidic passivation of stainless steel surfaces.

The use of Dirupass AP is recommended

- for spray cleaning in CIP systems or cleaning machines
- for automatic and semi-automatic cleaning with CIP and COP methods
- for flooding production systems



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