

Rapidly and effectively removes rouge deposits from stainless steel water systems and process vessels.

APPLICATION

The DIRUNEUTRA system rapidly and effectively removes rouge from the surfaces of AISI 316L, AISI 316 TI and AISI 904L stainless steel.

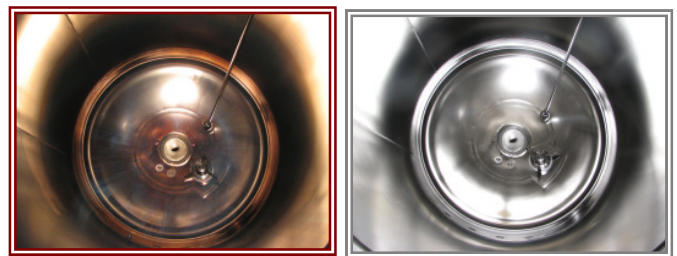
The new process works in neutral pH conditions and therefore meets the ever more stringent requirements for plant maintenance and environmental protection.

The DIRUNEUTRA system is a controlled process and is therefore suitable for derouging production equipment in the following manufacturing sectors:

- Pharmaceuticals
- Biotechnology
- Cosmetics
- Purified water production for medical uses

The DIRUNEUTRA system is especially suited to the derouging of

- Water for Injection (WFI) systems (loops and storage tanks)
- Clean steam systems
- Process vessels (e.g. in vaccine production)
- Autoclaves



before treatment

after treatment

The system consists of DIRUNEUTRA LIQ liquid and DIRUNEUTRA P powder. These two components are mixed shortly before use.

The advantages of using the DIRUNEUTRA system are:

Advantages	Benefits to you
Short process times	Shorter downtimes, longer duty cycles for production equipment
Neutral pH process	Solutions and rinsing water do not require neutralising. Waste disposal is simple and cost-effective.
Safer to use	High concentrations of aggressive acids are not required.
Simple in-process control	Monitoring of derouging solution effectiveness does not require expensive analytical equipment.
Rapid results	Short derouging cycle times. Improved efficiency.
Tried-and-tested process	Safer to use thanks to our process descriptions. This permits easy documenting of derouging operations.
Highly effective	The lower concentrations required mean that it is more cost-effective to use.
Excellent material compatibility	Longer life cycles for process plant and equipment.
Does not contain halogenides	No chemical attack of surfaces.
Analytical methods	Allows a residue-free process. A well established analytical procedure enables rapid transfer of the derouging process.

Passivation is recommended after derouging to build a protective layer on derouged surfaces. We recommend passivation with DIRUPASS AP. Contact us for more information about passivation with DIRUPASS AP.

AVAILABILITY

The DIRUNEUTRA system is available as a practical set.

1 set for 250 l solution consisting of:	1 set for 1'000 l solution consisting of:
DIRUNEUTRA LIQ 5.0 l	DIRUNEUTRA LIQ 20.0 l
DIRUNEUTRA P 1.5 kg	DIRUNEUTRA P 6.0 kg
DIRUCLEAN NS 1.0 kg	DIRUCLEAN NS 6.0 kg