



# PROKLENZ® TWO HIGH PERFORMANCE ACID DETERGENT TECHNICAL DATA

## GENERAL DESCRIPTION

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ProKlenz TWO High Performance Acid Detergent is a phosphate free, liquid, acidic detergent system specifically formulated to meet unique cleaning, derouging and passivation demands found in the pharmaceutical, cosmetic, medical device, nutraceutical, and food and beverage industries. It is formulated with a blend of organic acids, surfactants and other essential ingredients to utilize multiple cleaning mechanisms. ProKlenz TWO detergent effectively removes a wide range of process residues, including organic salts. ProKlenz TWO detergent is free of phosphates, perfumes and dyes. The surfactant system complies with the biodegradability criteria as laid down in European Community (EC) Regulation No. 648/2004 on detergents. Routine use provides maintenance removal of migratory iron (blush or rouge) from stainless-steel surfaces.

## FEATURES

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## BENEFITS

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Formulated detergent	Cleans a broad spectrum of soils with multiple cleaning mechanisms.
A blend of organic acids including citric acid	When used for passivation, complies with American Society for Testing and Materials (ASTM) A967. Effective at removing rouge from process equipment.
Phosphate free	Environmentally friendly.
Stable and biodegradable surfactant system	Remains soluble and active across a wide temperature range and complies with EC 648/2004.
A variety of analytical methods available (contains a High Performance Liquid Chromatography [HPLC] analyzable surfactant)	Makes analytical method validation easier for regulatory compliance.
Compatible with both glass and stainless-steel surfaces	Safe to use on most process equipment.
Low foaming at all temperatures	Easily rinsed, also does not cavitate recirculation pumps.
Exceptionally free-rinsing	Promotes a clean, residue-free surface.
Excellent hard water tolerance	Minimizes mineral deposits.

## PHYSICAL PROPERTIES

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Form.....	Liquid
Color .....	Colorless to light straw
Clarity .....	Clear to slightly hazy
Odor.....	Slight chemical
Specific gravity (77°F [25°C]).....	1.18, typical
pH (1 %w/w) .....	2.4, typical
Solubility .....	Complete
Foam.....	Low and controlled
Rinsing .....	Excellent

## DIRECTIONS FOR USE

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ProKlenz TWO detergent is designed to be low foaming at all temperatures. Typical operating temperatures range from ambient to 185°F (85°C).

Typical operating concentrations of ProKlenz TWO detergent run from 0.25 oz/gal to 4.0 oz/gal (0.2 - 3.1% v/v) and depend on temperature, soil loads and cleaning equipment used. STERIS will help you establish the optimum cleaning criteria for your operations. If desirable, our laboratories can screen various times, concentrations and temperatures to determine the optimum cleaning parameters for each soil.

Several options exist for the feed and control of ProKlenz TWO detergent, including:

- A titration for use-concentration determination
- Conductivity for automated feed and control

Contact your local STERIS sales representative for methods of testing for residuals of ProKlenz TWO detergent.

## STORAGE AND DISPOSAL

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### Storage

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty containers. This product should be stored in an area where it is not exposed to extreme temperatures.

### Disposal

Flush with plenty of water to the sanitary sewer. Dispose of in accordance with local, state and federal regulations.

## SERVICE

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### Sales

Service is one of the most important ways to verify consistent quality of the facility's performance and operation. A tailored service program by STERIS provides effective, trouble-free operations.

### Technical

STERIS is pleased to provide a completely staffed and equipped technical service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. More details on how this service can benefit a facility's particular situation can be provided upon request.

## PRECAUTIONS

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Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet (MSDS) for the product. For additional information regarding incidents involving human and environmental exposure, call 314-535-1395.

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**For further information, please contact:**

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