



Virudet® 12

An Acidic Detergent Cleaner for CRS Medical Instruments

Technical Information

Description & Application:

Virudet 12 is a powerful acidic cleaning concentrate for use in manual pre-soaks, washer/disinfectors, ultrasonic baths, and other automated decontamination systems. It is an acidic cleaning concentrate for medical and ward instruments made of stainless steel.

It can be used for the removal of annealing colours, water spots, transferred/initial rust, and encrustations. It is based on acids and surfactants and effectively removes inorganic contamination and coatings like annealing colours (silicate coating shining in various colours), spots from water with high salt content, transferred/initial rust resulting from contact corrosion e.g. contact with brass parts, plaster residues on plaster scissors and encrusted brownish organic residues.

Virudet 12 find particular use in overcoming process inadequacies that may arise from poor water quality, insufficient cleaning, usage of unsuitable cleaning products and disinfectants, processing errors or poor vapour quality in the sterilizer.

Where surface changes such as described above appear on instrument surfaces, the whole process must be checked. The instruments concerned should be treated with Virudet 12, either in an ultrasonic or in a soaking bath.

Brand-new instruments should go through an initial reprocessing cycle before they are used for the first time. Despite this pre-treatment, instruments made from minor steel qualities may show an irreversible greyish-black colouring after the first sterilization. By treating such instruments with Virudet 12 prior to the first reprocessing cycle, this discolouring can be prevented.

Virudet 12 can also be used for removing silicate coatings during processing of parts in washing machines.

Virudet 12 is registered as a Class I medical Device.

Primary features attributable to Virudet 12 are:

- Powerful acidic detergent cleaner suitable for removal of contaminants from CRS instruments.
- Uses a blend of inorganic acids and surfactant compounds.
- Recovers parts due to inadequate processing.



**Infection
Controlled**

Applications

Virudet 12 is a highly effective and safe process for the removal of annealing colours, water marks, rust and encrustations that arise from inadequate reprocessing/cleaning.

Virudet 12 is ideal for use in hospitals, health centres, dentists, and laboratories.

Compatibility

Virudet 12 is only to be used on parts manufactured from stainless steel.

Parts manufactured from un-tempered chrome steel and unalloyed steel are usually acid sensitive and cannot be treated with Virudet 12. The same applies to chromium-plated instruments, because there is a possibility that the chromium-plating will detach.

Health and Safety

Virudet 12 is biodegradable.

The neat product is classed as being Dangerous being corrosive to skin and eyes. Contact with skin and eyes should be avoided.

See Safety Data Sheets for details.

Typical Properties

Appearance	Transparent, Colourless liquid
Odour	Slight acidic odour
pH,	0.6 units (Neat solution) 1.3 units (10% solution) 2.1 units (1% solution)
Density, g/cm ³ @ 20 °C	1.09 (neat)
Solubility in water	Completely miscible
Flash Point (Abel closed cup)	None

Shelf Life: **Concentrate** – Not less than 3 years in unopened original containers when stored between 5 °C and 25°C out of direct sunlight.

Directions for Use

Virudet 12 is supplied as a concentrated product that requires dilution prior to use.

The dilution is dependent on the application:

- Soak cleaning baths 10 to 20% solution
- Ultrasonic baths 5 to 10% solution

Application:

For Ultrasonic Cleaning of instruments and equipment:

For cleaning applications, Virudet 12, diluted as above, is used at 60°C for 10 minutes and this time can be extended to 2 hours safely for severely affected instruments.

For Soak Cleaning of instruments and equipment:

For cleaning applications, Virudet 12, diluted as above, is used at 60°C for a minimum of 10 - 20 minutes and this time can be extended to 4 hours safely for severely affected instruments.

For Cleaning of washing machines and equipment:

The use is dependent on the resistance of the deposits/coatings present. Apply Virudet 12, diluted at 20% at 60°C for 10 minutes then rinse with water. The treatment should be repeated several times until surfaces are clean.

General Notes:

Virudet 12 is not a disinfectant and parts should proceed to disinfection or sterilisation by appropriate methods immediately following cleaning.

Do not add other cleaning agents to the Virudet 12 solution as they can seriously impair performance of the cleaner.

Containers and basins used to contain the cleaning process must be resistant to acids as must be the sinks and pipes, through which the working solutions of Virudet 12 are discharged.

After cleaning, instruments must be rinsed thoroughly with water and then dried.

Should the cleaning result be unsatisfactory, the treatment may be repeated.

Never leave instruments immersed without control or overnight.

To avoid surface changes of instruments in the future, all steps of reprocessing should be checked, including collection of instruments, automated or manual cleaning, disinfection and sterilization.

This means also, checking the quality of the water for cleaning and the steam for sterilization.

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For any further information, please contact either Amity Ltd. or your local distributor.

Packaging Details:

Virudet 12 is available in the following packaging.

- 1 L container (available on request)
- 5 L container
- 10 L container
- 20 L container (available on request)
- 210 L drum and 1000 L IBC container (available on request)