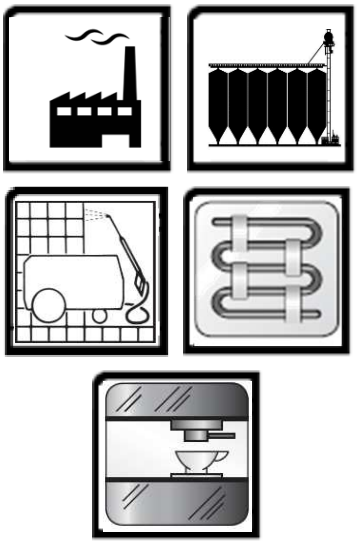
BIS K 8015

Liquid acidic descaling agent



CONTAINS: hydrochloric acid 15%, corrosion inhibitor

Field of application:

Intended for the removal of limescale from steam boilers, bottle washing machines, professional dishwashers, laundry machines, and other technical equipment, installations, and pipelines.

Properties:

The product ensures flawless performance in the descaling process. Incorporated corrosion inhibitors provide high-level protection of cleaned surfaces and are effective in preventing corrosion on iron and steel. The product must not be used for descaling surfaces made of non-ferrous metals and their alloys (brass, zinc, copper, etc.). It is easily rinsed.

Product application:

Determination of the required total amount of product – Prior to cleaning, if possible, the amount of limescale (affected surface area and thickness) should be determined. The bulk density (specific gravity) of limescale is 1.5–2 g/cm³, and 2.2 kg of product is required to dissolve 1 kg of limescale. Cleaning procedure – First, coarse or loose deposits should be removed with a water jet. The product is applied as an aqueous solution at a concentration of 10–50% (depending on the amount of limescale) at a temperature of up to 40 °C for 0.5–24 hours. When dissolving larger amounts of limescale, the reaction is vigorous with significant foam development; therefore, for cleaning heavy deposits, a lower product concentration should be used, and the process repeated if necessary. If excessive foam forms during cleaning, it should be broken with a water jet directed onto the surface. If possible, recirculation of the solution should be established to ensure better contact with the limescale surface. When foaming ceases, the cleaning process is complete, but the solution must still exhibit an acidic reaction. If foaming stops and the solution no longer shows an acidic reaction, an additional amount of product must be added, and cleaning continued. Afterward, the cleaned equipment or installation must be thoroughly rinsed with clean water (preferably verifying the rinse water with pH paper and, if necessary, neutralizing with a 1% solution of alkaline BIS).

pH			
1	**2**	3	4

Proper dosing reduces costs and minimizes environmental impact.

Professional use only

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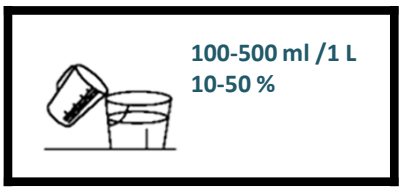
Note:
During boiler cleaning, the boiler must be filled with the product solution up to the upper water level. Ensure good ventilation of the boiler room. The product solution should be introduced into pipelines at the highest point, and the system must be completely filled. For bottle-washing machines, fill the bottle-washing tanks (L1) and the hot rinse tank with the product solution, then run the machine. After cleaning is completed, the entire machine must be thoroughly rinsed and neutralized. Since the descaling process is lengthy, the concentration of the solution can be checked by simple titration. If the concentration falls below 5%, a decision may be made to regenerate the solution.

Titration:
Titrate 10 mL of the used solution with 1 N NaOH using methyl orange as the indicator, until the color changes from red-orange to yellow. Calculation factor for determining concentration: **2.44**

U = ml consumed NaOH
U x 2.44 = concentration BIS K 8015 (%)



Safety advice and storage instructions:
Do not mix the product with other cleaning agents. Complete handling and disposal instructions are provided in the Safety Data Sheet (SDS).Store in the original packaging in a dry, cool, and well-ventilated place. Keep away from sources of heat, open flame, and direct sunlight. Store separately from alkalis, light metals, and oxidizing, organic, and flammable substances.

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