



Cleaning

DUONETT®



Non contractual photo

INTRODUCTION

DUONETT® is a liquid descaler for industrial use, designed to dissolve limescale and scale, and to eliminate sludge and rust deposits in water-carrying installations.

It can be used in heat exchangers (condensers and water evaporators), boilers, water circuits and pipes, and also in cooling towers.

DUONETT® is easy to use and biodegradable.

Available in 5-litre and 20-litre cans or 225-litre drums.

PHYSICAL-CHEMICAL PROPERTIES

Appearance.....	Colourless liquid
Odour	Odourless
pH at 10 %	< 2
Density at 20°C.....	1.064 ± 0.01 g/ml
Boiling temperature.....	101 °C
Solubility in water.....	Totally soluble

One litre of **DUONETT®** will dissolve around 280 grams of calcium carbonate at 20°C.

USE

DUONETT® can be used for both internal circulation (pipes, etc.) and external applications (exchangers such as condensers, etc.).

The pure product, in its original state, is biodegradable. However, once the product has been used, the residual solution after cleaning, even after filtration, may still contain a number of elements other than **DUONETT®** that do not allow it to be disposed into the sewage system (heavy metals, lead, various oxides, etc.). Consult your local water treatment plant and comply with current regulations.

How to use **DUONETT®** : Dilute between 30% and 50% by volume* in water on commonly used materials such as copper, steel, stainless steel, iron, brass, rubber, plastic, ceramics, etc.

Operating temperature range: between 0°C and +80°C.
Maximum effectiveness: between +10°C and +24°C.

When diluted, an exothermic reaction can raise the temperature of the solution by 10°C.

**Excluding zinc and aluminium, maximum concentration 10% by volume.*



Cleaning

For internal use:

Isolate and empty the water circuit

Add the **DUONETT®**:

- Directly into the system, then add the volume of water necessary to obtain the desired concentration,
- Or by having previously diluted it in the volume of water (recommended).

Circulate the solution as shown below*:

Installation Volume			Circulation Time
0	-	100 l	1 hour
100 l	-	200 l	2 hours
200 l	-	600 l	3 hours
600 l	-	1100 l	4 hours
1100 l	-	2000 l	6 hours
2000 l	-	3000 l	8 hours

*These values are given as an indication for a concentration of 50% by volume. Most cleaning operations with **DUONETT®** can be carried out in less than 4 hours on standard materials, at a concentration of 50% and under the temperature conditions specified above.

At the end of the treatment cycle, carry out 3 pH checks at 15-minute intervals while keeping the solution circulating.

If the pH is above 6 on 3 successive samples, the solution is saturated and must be renewed (partially or completely).

If the pH remains below 6, the system is clean.

Drain, rinse thoroughly and put back into service.

For hot water production systems, rinse several times after draining, put back into service and check that the system water has a pH of 7.

For external use, apply the product to the surface to be descaled so that it is completely covered, leave to work while checking the pH until it stabilises below 6, then rinse.

SAFETY INSTRUCTIONS

Like most detergent solutions, **DUONETT®** is an electrolyte. When descaling an installation composed of different metals, for example copper and steel, it is important to monitor the phenomenon of transfer of metal particles from one metal to another and to avoid long treatments (more than 8 hours).

On aluminium or zinc-based materials, the dosage should be a maximum of 10% and the reaction time should be less than 2 hours.

Consult the safety data sheet for more information.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.



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