



Dewan-7

CHLORINE-FREE TREATMENT FOR JACUZZIES AND HOT-TUBS

■ DEWAN®-7
chlorine-free
disinfectant
application of jacuzzies
and hot-tubs

■ Maintenance tips
for hot tubs

■ Chemical dosing
solutions

■ Questions and answers



What is DEWAN®-7?

DEWAN®-7 is a liquid CHLORINE-FREE DISINFECTANT, a version of DEWAN®-50 developed for hot tubs.

Due to its active ingredient, DEWAN®-7 enables modern and safe disinfection, the jacuzzi water will be crystal clear. In case of using the DEWAN®-7, in an average of 1,500 liter pool, a 10 kg can is sufficient for one month, depending on the number of bathers.

DEWAN®-7 has its disinfecting effect in a wide pH range (it is not sensitive to pH), so checking and correcting the pH value is primarily necessary if your skin or eyes are sensitive to pH values.

What will I need to use with DEWAN®-7?

- **DEWAN®-7** liquid disinfectant (available in 10 and 20 kg cans).
- **Flip-off cap** - for easier filling of the disinfectant.
- **Measuring container** – for dispensing the disinfectant
- **DEWAN®/Dewasil measuring strip:** the test strip is suitable for measuring the DEWAN®-7 disinfectant (if the disinfectant level is adequate, the „DEWAN®-50” line on the measuring strip turns dark blue).



The application of DEWAN®-7

DEWAN®-7 is a concentrated disinfectant optimized for whirlpools and small pools. It can be used for all small swimming pools that are equipped with a water circulation and filter system.

DOSAGE INSTRUCTIONS:

The concentration of the disinfectant in the water changes mainly depends on the load (number of bathers), otherwise it is expected to remain stable.

STARTING QUANTITY:

Add 400 ml of DEWAN®-7 per cubic meter to the water using the measuring cup. Simply pour the agent into the water, then start circulation so that the disinfectant is mixed in the entire amount of water. (We recommend that you always submerge the measuring jug filled with the chemical and pour the agent into the water in this way to avoid splashing the liquid.)

After starting the circulation, wait at least one hour, then check the level of the disinfectant in the water with a DEWAN®/DEWASIL test strip - the agent is in sufficient quantity when the measuring strip shows a dark blue marked value.

CONTINUOUS DOSING:

Add 1,2-1,5 litres of DEWAN®-7 per week to 1 m³ of bath water. Pour the chemical into the pool and turn on the circulation for a few minutes.

Check the chemical concentration daily (with a DEWAN®/Dewasil test strip) until the system is set up (approx. the first week). If the chemical level drops sharply at the end of the week, increase the weekly dosage by 100 ml.

Ensure that the pool is never left without a measurable chemical concentration, and we recommend that you continue to check the disinfectant level regularly using the DEWAN®/Dewasil test strip!

Higher loads or algae spores in the water will cause rapid disinfectant deterioration. If DEWAN®-7 levels fall below the prescribed level, microbial overgrowth can occur which is difficult to reverse and requires significant additional chemical.)

The product can be applied in two ways:

MANUAL DOSING:

A screw-on cap is available for the jugs, which, when wrapped in place of the original cap, makes it possible to deliver the liquid precisely to the target in the measuring vessel.

USAGE:

1. Replace the original cap with a pop-off cap!
2. Check that the cap is closed!
3. Carefully lay down the can!
4. Release Dewan®-7 into the measuring cup by carefully opening the tap of the cap!
5. Carefully pour the measured amount of Dewan®-7 into the water.

Automated dosing: can be timed with a peristaltic pump

By connecting the peristaltic pump with a time control switch, you can ensure a reliable, even chemical distribution in the pool water.

Recommended pump: PERISTALTIC PUMP 4 l/h TEC 1VV

MEASURING:

DEWAN®-7 is measured with a DEWAN®/DEWASIL test strip.

The test strip has to be used at least once a week, and if possible before each bath, we have to check whether the appropriate amount of DEWAN®-7 is present in the pool water.

In the first two weeks, measure more often, every 1-2 days. The disinfectant level in the pool water are appropriate when the values shows 50-200 mg/l on the scale of DEWAN®/DEWASIL test strip.

What affects chemical levels?

DOSAGE AND MEASUREMENT:

The concentration of the disinfectant in the water changes mainly depending on the load (number of bathers), otherwise it is expected to remain stable. In the case of an average pool with a balanced load, a chemical injection once a week will be sufficient. However, until the system is stabilized, we recommend increased monitoring. In the first two weeks it is advisable to check the chemical concentration every day or every second day.

Ensure that the pool is never left without a measurable concentration of chemicals! A greater load or algae spores entering the water cause the disinfectant to wear out quickly. If the level of DEWAN[®]-7 falls below the prescribed value, microbial overgrowth may occur, which is difficult to reverse and requires significant additional chemicals.

Advantages of DEWAN[®]-7

- There is no chlorine smell, the pool water and the air remain naturally scented - thereby providing you with a higher quality, more pleasant bathing experience.
- Does not form compounds harmful to health.
- Water disinfected with DEWAN[®]-7 does not sting the eyes and does not irritate the skin.
- It can also be used for water containing iron or other metals, because the discoloration expected to occur with chlorine does not appear in the case of pools treated with DEWAN[®]-7! Not dependent on temperature: it hardly breaks down under the influence of sunshine and heat.
- pH independent, so it is easier to adjust the pH value.
- Can be dosed within wide limits.
- Provides a long lasting effect.
- Extremely effective against bacteria, viruses and fungi.
- Provides protection against chlorine-resistant bacteria (it can be used to prevent atypical pneumonia caused by Legionella and destroys chlorine-resistant Pseudomonas Aeruginosa.) Does not cause allergic reactions (e.g. skin rash), should not be considered asthmatic diseases caused by chlorine.
- Non-corrosive.

pH adjustment with DEWAN[®]-7

DEWAN[®]-7 has its disinfecting effect in a wide pH value range (it is not sensitive to pH), so checking and correcting the pH value is primarily necessary if your skin or eyes are sensitive to high pH values. (In the case of a high pH value in the pool, skin irritation can occur, and too low a pH can irritate our eyes - if we fall under water. Therefore, the optimal value is between 7,2-7,4, keep the pH in this range if possible!)

DEWAN[®]-7 is pH independent: its application does not change the pH value of the water. (However, since the pH value of the water increases continuously due to the release of carbon dioxide - up to a value of approx. 9 - use DINAX[®] MÍNUSZ P granules to reduce the pH value!)

Available packages:

10 kg and 20 kg can

What additional agents do we need in addition to DEWAN®-7?

CONTINUOUS TREATMENT:

In the case of an indoor whirlpool:

For the continuous treatment of the pool, nothing other than the pH adjusting agent is needed.

For outdoor pools:

In case of strong sunlight, the use of ALGI-CID algae remover is recommended as a supplementary chemical.

pH adjustment

► DINAX® MINUSZ P – pH-reducing granules

The ideal pH value of bath water is between 7,2 and 7,4, most disinfectants work optimally in this range. In the case of a higher pH value, efforts should be made to reduce it, which can be achieved with the correct dosage of DINAX® MINUSZ P.

► DINAX® PLUSZ P – pH increasing granules

Algae removal

► ALGI-CID – swimming pool algae remover

Broad-spectrum, highly effective algaecide. With its regular use, algae problems such as cloudy, opalescent water, unpleasant odors, clogged filters, and increased need for disinfectants can be overcome.

Additional Chemicals To Help The Treatment:

► BIPOOL-G - enzymatic anti-greasing and water cleaning gel

Enzymatically cleaning the pools from greasy deposits and stains which occurs when pools and hot tubs are overloaded. It keeps the walls of the pool clean, removes grease, and prevents the formation of chloramines.

Environmentally friendly, non-toxic and biodegradable.

Special problems:

In some cases, it may be necessary to prevent foaming or to prevent hardness or iron calcification.

FOAM PREVENTION

- ▶ **DINAX® HABSTOP F** – antifoam liquid

Effectively reduces foaming caused by body care products or other substances in the pool.

PREVENTION OF HARDNESS AND IRON EXCRETION

- ▶ **DINAX® METAL MAGIC F** – for the prevention and removal of metallic and calcareous deposits

In the case of ferrous waters, it prevents the formation of discoloration, and its use can avoid scale deposits in the pool.

FLOCCULATION

In some cases, a flocculant may be needed in addition to DEWAN®-7, we recommend DINAX® FLOCK F - 100 ml.

MAINTENANCE

Recommended chemicals:

- ▶ **ALGA-SOKK® P** – chlorine shocking agent

Chlorine disinfectant (granules) for shocking treatment against algae.

- ▶ **DINASAN P** – cleaning and disinfecting agent for whirlpool baths

It is particularly suitable for cleaning the hard-to-reach pipe systems, water inlets and drain systems, as well as the pool wall. Removes soap, oil and grease deposits and slimy deposits.

FILTER CLEANING

- ▶ **DINAX® FILTER KONDI WP**

A tablette suitable for the regular or periodic cleaning of heavily soiled paper filter inserts in hot tubs and seasonal garden pools. It has an excellent biofilm removal effect.

- ▶ **DINAX® FILTER FIZZY P** – paper filter cleaning powder - for soaking

It is excellent for cleaning the paper filter of jacuzzis and small pools, and for removing mineral (inorganic) dirt that accumulated on the filter.

- ▶ **DINAX® FILTER CLEANER F** – filter cleaning liquid

Agent developed for cleaning sand filters and filter inserts, primarily for the removal of inorganic materials (e.g. scale). It can also be used for cleaning the paper or the so-called pleated filters by spraying the product in.

The maintenance steps can be read in detail on the following pages!

Maintenance tips for hot tubs

WEEKLY MAINTENANCE (FILTER)

Frequency: 1-2 weeks (depending on workload)

What it refers to: filter

Required materials: ALGA-SOKK® P

Purpose of maintenance: Regular cleaning of the filter can prevent unnecessary consumption of chemicals, as well as support more efficient filtering of the pool water.

Performing the maintenance: Dissolve a teaspoon of ALGA-SOKK® P in a bucket of warm water. Take out the filter insert and place it in the solution. Let it stand for an hour or two, then rinse thoroughly with a strong stream of water. Put the filter back in the place.

PERIODIC MAINTENANCE (filter+water+pipe system)

Frequency: every 5-8 weeks (depending on the bath load)

What it refers to: filter, pool, pipelines

Required chemicals: DINASAN P, ALGA-SOKK® P, DINAX® FILTER FIZZY P

Purpose of maintenance: At the beginning of using a new disinfection method, it is advisable to clean the pool thoroughly in order to eliminate any problems of hidden contamination.

In the case of continuously operating pools, it is necessary to change the water periodically and to clean the pipelines and the pool area thoroughly.

Performing maintenance:

Step 1: REMOVAL OF GREASY DEPOSITS - WITH DINASAN P:

1. Add 250 g of DINASAN P per cubic meter to the used bath water intended to drain before draining.
2. If dosing into the skimmer or to the filter unit cannot be solved, dissolve the required amount of Dinasan P in approximately 5 liters of water and pour it directly into the massage pool.
3. After dosing, circulate the water for at least 5 minutes.
4. Stop the water circulation, then let the chemical works for at least 1 hour to dissolve and remove the contamination, and for another 1 hour to achieve the guaranteed disinfection.
5. After the time expired, start the circulation of the water again for a few

minutes.

6. Drain the water and rinse the tub.
7. Fill the tub with a small amount of clean water, turn it in the system for approximately 5 minutes, so that the rest of the chemical removes from the water.
8. Then drain the rinsing water as well.

TIP: Warm water enhances the cleaning effect!

Step 2: DISINFECTION - DISINFECTION OF THE ENTIRE POOL AND PIPE SYSTEM – WITH ALGA-SOKK® P:

1. Fill the pool!
2. Add 50 g of ALGA-SOKK® P (up to 1-2 tablespoons) per cubic meter of water!
Tip: in order to mix the chemical more efficiently, we recommend you to dissolve ALGA-SOKK® P in a bucket of water before.
3. Move the water with the elements so that the chemical mixes well!
4. Leave the chemical to act for at least 2 hours, then drain the entire amount of water! (If you do not want to drain the pool for economic reasons, wait until the chlorine level drops. DEWAN®-7 and ALGA-SOKK® P neutralize each other in the pool water, so if you want to use your pool soon again, you can add DEWAN®-7 even after shocking, but can expect to use more disinfectant for reaching the starting concentration.)

Step 3: CLEANING THE FILTER - removing inorganic dirt (e.g. rust and limescale) - with DINAX® FILTER FIZZY P, replacing the filter insert if necessary:

1. After the shock treatment of the pool water, remove the filter insert. If it looks worn, replace it! If you do not think yet the replacement is necessary, then follow the steps below!
2. Fill a 5-10 liter bucket with warm water and dissolve one sachet of filter cleaning powder marked „A” and one sachet of „B” in it. (Be careful not to inhale the dust!)
3. Rinse the paper filter with water (e.g. with a shower), then soak it in the solution so that it is completely immersed in it.
4. Leave the chemical to act for at least 1 hour, or up to 24 hours in case of heavy contamination.
5. When the effective time has passed, rinse the water filter under running water, holding it vertically so that the rinsing water can flow out between the lamellae.
6. If possible, allow the filter to dry and then replace it in the filter compartment.

TIP: If the filter to be cleaned is dirty and/or slimy to the touch, it is necessary to remove the biofilm before cleaning.

DO AS IT FOLLOWS:

1. Dissolve 100 g of ALGA-SOKK® P in a bucket and soak the filter in it for 24 hours.
2. Rinse thoroughly.
3. Let it stand in clean water for one hour.
4. This can be followed by treatment with DINAX® FILTER FIZZY P.

After completing step 3, the pool can be used again depending on the disinfectant level.

Chemical dosing solutions

CHEMICAL DOSING PUMP

If you don't want to forget about dosing the disinfectant, you can use a chemical dosing pump, which after a one-time investment enables extremely convenient operation for you.

Recommended pump: PERISTALTIC PUMP (time-controlled, 1.4 l/h)

SETTING THE CHEMICAL DOSING PUMP

Pump setting options: With the help of the MINUTES potentiometer, you can set the length of the dosing in minutes (1 minute = 24 ml). With the help of the HOURS pot-meter, we can control the daily repetition (that is, how many hours the amount of time chemical set in MINUTES is adjusted).

Example: First setting of a 1 m³ whirlpool: MINUTES: ~16 minutes or MINUTES: ~8 minutes HOURS: 24 hours HOURS: 12 hours (ie. it dispenses once a day for 16 minutes or twice a day for 8 minutes).

Based on the concentration developed in the first 2 days, correct it by decreasing or increasing the value. Do not set the dose higher than 30-50% per day, because otherwise we have to turn off the device a lot, then turn it on again after a few days, and the adjustment period can be very long.

Questions and answers

What should I do if the water foams strongly?

Depending on the strength of the foaming, add 10-100 ml of DINAX® HABSTOP to the water per cubic meter until the foaming stops. After administration, wait until the agent is thoroughly mixed in our pool.

What should I do if I experience brownish (iron) discoloration in the pool?

In the case of pools treated with DEWAN®-7, the brownish coloring does not occur. If you use chlorine disinfection and the water in the filled Jacuzzi pool is green, yellow or brown, or if metallic deposits are visible, this indicates that the incoming water has a high metal content.

HERE'S HOW TO FIX THE PROBLEM:

1. Drain the pool.
2. Pour 30-50 ml of DINAX® METAL MAGIC F per cubic meter into the empty pool, which binds metals dissolved in water (e.g. iron) into complex!
3. Fill the pool with water and treat it as prescribed! The pool can be used immediately after filling.

IF I AM TRAVELING AND I DO NOT WANT TO DRAIN THE WATER FROM THE POOL?

Clean the filter insert and put it back! Turn off the pool heating! Add 1,5 l/m³ of DEWAN®-7 to the water, or as much as the darkest color on the measuring strip. If possible, the water should be turned over once a day in a pre-programmed manner.

IF THE POOL IS UNDER MORE THAN AVERAGE LOAD?

If during the operation of the pool there is a load that exceeds family use, then: Ensure that the filter is cleaned more often! Rotate the water for 8-10 hours! Increase the amount of disinfectant to be added! Check pH and disinfectant concentration more frequently!

I DON'T WANT TO USE MY HOT TUB IN WINTER?

If you do not plan to use the jacuzzi during the winter, you have two options for winterizing the pool:

1. Complete drainage. In such cases, the pool, the pumps and the entire pipe network must be drained, and the pool must be covered. By the nature of massage pools, this is a task that requires extreme care, therefore in any case we recommend the involvement of an expert!
2. Reduced mode: In this case, the water in the pool does not need to be drained, but it must be tempered throughout the winter (of course, it is enough to heat it to the lowest possible temperature). The need for chemicals during this period is very low, typically you don't have to deal much with the management of the pool, but you must always calculate the costs of the heating and the electricity used.

dinax[®]

The logo for DINAX features the word "dinax" in a bold, lowercase, sans-serif font. The letters are dark blue. Below the text, there are horizontal lines of varying lengths that create a stylized, wave-like or architectural base for the letters. A registered trademark symbol (®) is located at the top right of the word.