



# INSTRUCTIONS FOR ADDING AND ADJUSTING CHEMICALS AND SOLVING WATER-RELATED PROBLEMS

When assembling the pool, you receive an initial set of chemicals that includes:

- CHEMOFORM Calzestab Eisenex 1 l
- PLANETPOOL Multitab 1 kg
- CHEMOFORM T granulate 65 1 kg
- CHEMOFORM pH minus Granulate 1,5 kg
- Pooltester pH/Cl starter set 2x10 tablets or test strips
- JJSPA TP-3120 – Mini chlorine buoy

This initial set of chemicals is sufficient to fully balance the water. You can always buy chemicals on our Shop Trgovina Tana, you can see whole offer on our website: <https://trgovina-jana.si/nega-vode>, where they are also available in larger quantities. Here you will also find all safety data sheets.

## WARNINGS

- **Do not mix the means together!**
- **Hazardous gases may be released during use.**
- **If you use several different agents for water treatment, prepare the solution of each in its own container and then carefully add it in the water.**
- **Store and transport in a cool place and away from the sun in the original packaging.**
- **Use protective gloves when working. All safety data sheets can be found on the website.**

## TABLE OF CONTENTS

|  |        |
|--|--------|
| <b>Adding chemicals when filling the pool with fresh water</b> ..... | page 2 |
| <b>Further dosing of chemicals</b> .....                             | page 3 |
| <b>Other instructions and solving water problems...</b> .....        | page 4 |
| <b>NOTES (Descriptions of chemicals)</b> .....                       | page 6 |

# ADDING CHEMICALS WHEN FILLING THE POOL WITH FRESH WATER

## 1. Step - prevention of excretion of iron, scale, and rust from water

After filling the pool, add **CHEMOFORM Calzestab** <sup>(1)</sup> according to the hardness of the water, which depends on your location. You can check this through the link below:

For Slovenia territory: <https://www.veto.si/files/produkti/bwt/perla-silk/trdota-vode-v-sloveniji.pdf>

For Croatia territory: <https://aquapur.hr/slimline-omeksivac/tvrdoca-u-hrvatskoj/>

- With a water hardness of 10 dH, it is necessary to first dose 50 ml of the agent per 1 m<sup>3</sup> of water
- With a water hardness of 10-20 dH, it is necessary to first dose 100 ml of the agent per 1 m<sup>3</sup> of water
- With a water hardness of 20-30 dH, it is necessary to first dose 150 ml of the agent per 1 m<sup>3</sup> of water
- For water hardness above 30 dH, it is necessary to first dose 200 ml of the agent per 1 m<sup>3</sup> of water

## 2. Step – disinfection and burst chlorination

**THE NEXT DAY (24 hours after adding CHEMOFORM Calzestab)** , add one tablet of **PLANETPOOL Multitab** <sup>(2)</sup> to the dosing buoy or skimmer. Do not throw the tablet directly into the pool.

Then carry out a chlorine shock or shock chlorination with the agent **CHEMOFORM T Granulat 65** <sup>(3)</sup>. Add about 8-10 g of granulate per 1 m<sup>3</sup> of water.

**WARNING: Do not use the massage pool for the next 24 hours!**

## 3. Step - pH adjustment

**1 WEEK** after using the above three chemicals, when the water has stabilized, adjust the pH of the water. You can use the pool during this time.

First, **test the pH value of the water, using** the Pooltester pH/Cl test strips or tablets, with which you can check the value of free chlorine and pH. The ideal pH value of water is between 7.0 and 7.6.

Then add **CHEMOFORM pH-Minus Granulate** <sup>(4)</sup>. 15 g of pH-Minus Granulate is sufficient to lower the pH value of 1 m<sup>3</sup> of water by approximately 0.2. A larger dosage is required for hard water, and a smaller one for softer water. Check the pH value during dosing. Do not add the solution to the pool near metal parts. First, dissolve the pH-Minus Granulate in a glass of water and then slowly pour it into the water along the edge of the pool.

# FURTHER DOSING OF CHEMICALS

## 1. Step - Disinfection, algae prevention, and water clarification

**ONCE A WEEK**, add 1 tablet of **CHEMOFORM Multitab**, which serves to disinfect, prevent the appearance of algae and clarify the water. Never put tablets directly into the pool - add them to a skimmer or buoy.

NOTE: Bigger number of bathers, higher temperatures and rain may result in the need for higher or more frequent dosing.

## 2. Step - Check pH

Test the pH of the water 1-2 times in a period of 3 months or as needed (if you notice any irregularity in the water, cloudy water, smell, etc.), with test strips or Pooltester pH/Cl tablets. Check the pH value when the Multitab tablet is almost dissolved - as the chlorine content rises, so does the pH value.

The ideal pH value of water is between 7.0 and 7.6. Adjust the pH value of the water according to the instructions: 15 g of pH-Minus Granulate is sufficient to lower the pH value of 1 m<sup>3</sup> of water by approximately 0.2.

## 3. Step - Chlor Schock

**ONCE A MONTH** carry out a chlorine shock. Add 8-10 g of CHEMOFORM T granulate 65 per 1 m<sup>3</sup> of water. As a rule, add chlorine in the evening.

NOTE: Greater number of bathers, higher temperatures and rain may result in the need for larger or more frequent burst chlorination.

## 4. Step (AS NECESSARY) - Adding an anti-limescale agent

Add CHEMOFORM Calzestab in the event of the appearance of scale on the pool shell (at the edge of the water level) or adding a large amount of fresh water (due to evaporation - especially in the summer months) in the following amounts:

- With a water hardness of 10 dH, the required amount of agent is 15 ml per 1 m<sup>3</sup> of water.
- With a water hardness of 10-20 dH, the required amount of agent is 20 ml per 1 m<sup>3</sup> of water.
- With a water hardness of 20-30 dH, the required amount of agent is 25 ml per 1 m<sup>3</sup> of water.
- For water hardness above 30 dH, the required amount of agent is 30 ml per 1 m<sup>3</sup> of water.

# OTHER INSTRUCTIONS AND SOLVING WATER PROBLEMS

## 1. Clean the cartridge filters at least once a month

With better filter performance, water quality also improves. To clean the filters, use **CHEMOFORM Filterreiniger filter cleaner**. The cleaner removes scale, organic particles and other impurities that accumulate in the filter. Improves filter flow and efficiency. It is suitable for sand and cartridge filters.

**Use:** Turn off the spa. Remove the filter cartridge from the housing, spray it with Filterreiniger filter cleaner and let it work for 5-10 minutes. Then rinse the cartridge well with a strong jet of water.

**It is especially important to thoroughly wash the areas between the filter slots.** You can do this with a filter cleaning brush that you connect to a regular garden hose and water mains.

It is recommended to dry the filters cleaned in this way and use them for the next filter change. For this way of working, it is also necessary to have spare filters on hand.

## 2. Water clarification (Turbid water)

If you notice that the water in the massage pool is not completely clear despite the procedures mentioned above, the cause is usually mechanical. Clean the filters and turn on the 24 hour filter cycle. If you use the hot tub very often or if it is more often exposed to external influences, extend the filter cycles.

If the water is cloudy despite the above measures, use the flocculant **CHEMOFORM Flockfix**. Flockfix is a special preparation for removing water turbidity in swimming pools. It is used undiluted, it is pH-neutral. It works by turning the dirt into flakes in a very short time.

**Application:** Add 5 to 10 ml of the preparation CHEMOFORM Flockfix per 1 m<sup>3</sup> of pool water. Mix the water with a mesh or something similar. After a few hours, when the pieces of dirt settle to the bottom, turn on the massage pumps, which will lift the pieces of dirt and filter them through the skimmer and cartridge filter. After the operation, clean the filters.

## 3. The appearance of algae

Water attacked by algae becomes greenish in color and the walls of the pool are slippery. Pool water is the perfect environment for the growth of algae, which are not a source of infection, but their dead cells are food for other harmful microorganisms.

### 1. Step - Clean the pipe system

Use CHEMOFORM SPA Pipe System Cleaner. Pour 500 ml of detergent per 1 m<sup>3</sup> of water into the tub bucket. Airblowers should not be turned on because foam is produced. Run the pumps for about 10 minutes.

### 2. Step - Chlor Schock

Carry out a chlorine shock - add 50 g (a larger dose than normal shock chlorination) of CHEMOFORM T granulate 65.

### 3. Step - Drain the water

Drain the water from the pool and rinse the pool. Fill with fresh water and follow the chemical regulation instructions when filling the pool with fresh water.

#### 4. Changing the water in the massage pool

The frequency of water changes in a hot tub depends on several factors, including the size of the pool, frequency of use, and quality of water maintenance. In general, you should change the water of the massage pool once a year, provided that the chemicals are properly regulated.

#### 5. Cleaning the pool area

When changing the water, we clean the pool. Organic dirt, such as soot, dust, grease, can be cleaned most easily with **CHEMOFORM Flisan** or **POTZ 000**. Clean limescale on the edge of the pool with a cleaning concentrator **CHEMOFORM Keraclin F** or **Keraclin S**. Do not clean the pool in the hot sun. **CHEMOFORM Randklar** or **RANDKLAR powder** is used to clean the edge of the pool during the bathing season. The choice of cleaner is mainly related to the type of dirt. This and all resources are available on our website <https://trgovina-jana.si/nega-vode>, where you can also find safety data sheets.

#### 6. "Preparing" the pool for winter?

The massage pool should not be left without water during the winter. If we drain the water from the massage pools, there is always some water left in the pipes and pumps, which freezes in winter. This causes damage to pipes and other parts. The spa should be operated at a minimum temperature to prevent freezing. But you can leave it working at a normal temperature of 37-40 °C, and so it will always be ready to enjoy warm water.

The JJSPA massage pool has built-in anti-freeze protection. Also, if there is a power cut in between, the pool automatically turns back on, and when the water temperature drops, the anti-freeze protection activates, keeping the pool water at a temperature of 8 °C.

The Jacuzzi should be covered with a thermal cover that protects the water from excessive loss of water temperature and protects the pool from dirt.

# NOTES (Descriptions of attached chemicals and links to safety data sheets)

## <sup>(1)</sup> CHEMOFORM CALZESTAB EISENEX- CALCULUS CONTROL

With the product CHEMOFORM Calzestab Eisenex to prevent limescale build-up on the pool shell, pipes, heater and other components. Limestone coatings are very easy to detect in a massage pool, as the shell of the massage pool becomes "rough" to the touch, or they feel like you're pulling on sandpaper.

Coatings also represent an ideal environment for the development of bacteria and other microorganisms, so it is very important to prevent the formation of coatings.

Means CHEMOFORM Calzestab Eisenex is a means of preventing the excretion of iron, scale and rust from water. It breaks down metal deposits and scale and prevents their formation. It protects metal parts from corrosion and the filter from limescale.

The amount of the agent is regulated according to the hardness of the water or according to the amount of metal ions present. Calzestab eisenex can be added directly to the pool before the first chlorination. Subsequent dosages depend on the amount of fresh water added, or at least once a month. Within 24 hours of adding Calzestab Do not add chlorine or algaecide to Eisenex water !

## <sup>(2)</sup> PLANETPOOL MULTITAB

Multitab proved to be the most effective and reliable means of disinfection, algae control and water clarification . Multitab are very slowly dissolving 20 g tablets, with more than 80% active chlorine. The tablets are stabilized against rapid chlorine decomposition and are suitable for water maintenance in private swimming pools.

## <sup>(3)</sup> CHEMOFORM T GRANULATE 65

T Granulate 65 is a very effective agent for disinfecting pool water. T Granulate 65 is stabilized active organic chlorine in a solid state, it contains 56% active chlorine. Suitable for rapid disinfection and burst chlorination. Also suitable for very hard water, melts quickly and without residue. It is stabilized against rapid degradation in heat and sunlight.

First dissolve the granulate in a bucket of water and then slowly pour it into the water along the edge of the pool! Never put the granules directly into the pool. There is a risk of discolouration of the film!

## <sup>(4)</sup> CHEMOFORM PH-MINUS GRANULATE

In Slovenia, we have hard water with a high pH value, so it will almost certainly be necessary to lower the pH value of the water. pH Minus Granulat is a regulator for lowering the pH value of water. It lowers the pH value of the pool water from basic (above 7.6) to a neutral range of 7.0 - 7.6. The acid preparation is in a solid state and is therefore suitable for longer storage. It is completely chlorine-free, fast-dissolving , without residues.

To test the pH value of the water, use the Pooltester pH/Cl test strips or tablets, with which you can check the value of free chlorine and pH.