

Emergency Water PurifierTM

Rapid cleaning of dirty water; only 1,5 minutes of mixing needed!

Usage

Emergency Water PurifierTM (EWP) sachets are developed to support people in emergency situations to rapidly purify contaminated water into safe clean drinking water. EWP sachets are used to remove dangerous viruses, bacteria, and protozoa. Also turbidity and metals such as iron, mercury, fluoride, and arsenic are purged from the water. It takes only 1,5 minutes of the EWP content into the contaminated water to obtain a maximum effect of purification.

How does it work?

Just add the content of a EWP sachet into 10 litres of contaminated water in a bucket and stir the water vigorously during 1,5 minutes using a slim stick. As a result muddy water becomes clear, disease-causing bacteria and viruses are removed for 99,999% and protozoa for 99,9%. In addition the EWP sachet also remove fluoride-, iron-, arsenic- and mercury contamination from the water within 30 minutes time. During that period dirt particles flock together and sink to the bottom of the bucket. Then the treated water is poured through a cloth into a storage bucket leaving behind the dirt on the cloth. The treated water is now fit for human consumption.



These pictures show the 3 stages of the purification process using EWP sachets

Benefits of the EWP sachets

1. Excellent removal of bacteria, protozoa and viruses;
2. Very effective removal of fluoride-, iron-, arsenic- and mercury contamination;
3. Mixing time is only 1,5 minutes;
4. A long shelf life of over 3 years.

Why EWP sachets are better than other solutions

The EWP mixture combines the effective treatment of approved calcium hypochlorite in combination with modern inorganic coagulants to treat the water effectively. As a result, the time needed for proper mixing of the water with the EWP contents is reduced significantly from 5 minutes back to 1,5 minutes. Also, the shelf-life of EWP sachets (3 years) is far longer that of other brands (3-4 month). Last difference with competitive sachets is that after treatment with EWP content, a broader range of heavy metals are removed from the dirty water. This has a positive effect on the health of people consuming the water. EWP sachets simply are doing a better job for the same costs.



Types of water to be treated

EWP sachets have been specifically developed to treat a broad variety of bad quality water often present during emergency situations. Except for salt water, all types of muddy- and clear water containing dangerous bacteriological-, chemical- and physical contaminations can be treated using the EWP sachets.

How to use Emergency Water Purifier™

The EWP sachets are best applied following the 5 steps:

- Step 1: Open the EWP sachet using scissors and add contents into a bucket containing 10 litres of contaminated water;
- Step 2: Stir the water vigorously for 1,5 minutes using a wooden stick. Then remove the stick;
- Step 3. Wait 30 minutes for flocks to settle down, the water will become clear and the dirt has sunk to the bottom and can now be easily removed;
- Step 4. Pour the treated water through a cotton cloth into a storage bucket and remove floating debris;
- Step 5. The purified water in the storage bucket is now safe and ready for human consumption.

For water specialists:

A. EWP treatment solution in detail

Emergency Water Purifier™ is a powerful mixture that removes bacteriological-, chemical- and physical impurities so that the water becomes fit for human consumption. We are the first producers applying modern more effective coagulants reducing the time needed for mixing with about 70%. From 5 minutes back to 1,5 minutes. The EWP sachets contain a combination of calcium hypochlorite and coagulants: calcium hypochlorite effectively removes harmful organisms effectively and the coagulants eliminate turbidity, fluoride, arsenic and other heavy materials.

B. Exact removal rates

The EWP content is able removing the following contaminants:

1. **Organic matter** which is found in in all surface, ground and soil waters;
2. **Physical contaminants:** Turbidity, suspended matter from 1.000 NTU to less than 5 NTU;
3. **Biological contaminants:**
 - ⇒ Bacteria for 99,999%,
 - ⇒ Protozoan parasites 99,9%,
 - ⇒ Viruses 99,999%
4. **Chemical contaminants:**
 - ⇒ Fluoride from 5,0 ppm to less than 0.2 ppm level;
 - ⇒ Arsenic (III and IV) from 700 ppb to less than 0 ppb level;
 - ⇒ Mercury from 1.000 ppb to less than 1 ppb;
 - ⇒ Iron from 5 ppm to below 0.3 ppm level.

Proof of quality:

We are in the process of getting the sachets approved by the WHO and other independant International approved test laboratories. Please let us know if you are interested in the detailed water test reports so far obtained.

Interested in the Emergency Water Purifier™ ?

For more information do not hesitate to contact us. The Emergency Water Purifier™ sachets worldwide (except India) are delivered by:

Aqua-Aero WaterSystems BV, The Netherlands.

Tel: ++31.621243125

www.aaws.nl info@aaws.nl