

# How To Make Distilled Water For The Battery

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The battery uses battery acid as the medium through which electrochemical reactions take place. This battery acid is made up of sulfuric acid (35%) and distilled water (65%) to form the electrolyte. The battery acid concentration levels are maintained carefully to ensure the environment inside the battery is conducive to chemical reactions.

Distilled water is the purest form of water with no dissolved elements in it. Distilled water is obtained by changing liquid water into gaseous form and then condensing the gases back into liquid form. In this way, you will rid the water of any absorbed minerals thus making it pure.

The sulfuric acid in the battery electrolyte is highly reactive and will react with any dissolved minerals in the water. When this happens, the sulfur ions to be used in the chemical reactions are reduced thus reducing the battery capacity.

**Step 1:** Fill one bottle with tap water and leave around 5 inches at the top. Insert the pipe on the top side of the water and don't let it touch the water. Seal the bottle cap with duct tape. You can also make a hole on the bottle top through which you insert the pipe. Cover the remaining part of the bottle cap with duct tape to make it airtight.

**Step 3:** Fill a container with water and put it on heat. Put the bottle with water inside the container on heat. Make sure the water in the container covers the level of the water in the bottle.

**Step 4:** Put the second bottle in a container. Add ice cubes or put the ice in a cloth and wrap the empty bottle with the cloth. This will facilitate the condensation of the steam.

**Step 5:** Put the heat on and wait for the magic to happen, on a light note. As the water in the container is heated, it will heat the water in the bottle. The water in the bottle will start evaporating. Since there is only one way out through the pipe, steam will go through the pipe to the second container.

Distilled water possesses the unique characteristic of having a PH of 7. This is neutral meaning it is neither acid nor basic. This is due to the absence of dissolved elements. However, when exposed to air, distilled water will absorb carbon dioxide in the air to form carbonic acid that has a ph of around 5.8

As we have said earlier, water is a universal solvent and will dissolve so many minerals. As the water comes

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from the underground, it passes through rocks and other surfaces that have different minerals in them. Water will dissolve so many minerals, some of which are good for the body before it reaches the treatment plants.

At the treatment plant, any suspended matter in the water is removed and chlorine is added to kill any microbial organisms in the water. No mineral dissolved in the water is removed. The water is safe for drinking but it still has minerals dissolved.

Sulfuric acid is highly reactive and will react with the minerals dissolved in water to form sulfates. The dissolved minerals may include sodium, magnesium, chloride, calcium, and potassium. All these elements will react with sulfuric acid to form their sulfates.

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