Z-SUPPORT ATP Activator

1. General Information

Z-SUPPORT ATP Activator is a detergent dedicated for post-processing of models printed with soluble filaments: Z-SUPPORT ATP and Z-SUPPORT ATP 130. Once the Activator is dissolved in water, it produces a mild alkaline solution which enables the process of removing the support material from 3D printed parts.

The dissolving speed highly depends on the temperature and circulation of the solvent bath. It is always required to stir and heat up the water for effective print processing. The dissolution rate also depends on the quantity, design and position of the support structures. It takes more time to dissolve the support material in models with a lot of cavities.

2. Operating Instructions

Despite the product's low corrosiveness, you should always refer to the safety data sheet for the correct and safe use. Wear appropriate protective gloves as well as eye and respiratory protection.

During every post-processing procedure, remember to ensure proper temperature of the solvent bath to dissolve supports and avoid deformation of models.
For Z-SUPPORT ATP - the recommended temperature is min. 65° C
For Z-SUPPORT ATP 130 - the recommended temperature is min. 80° C
It is important to maintain the temperature of the bath at 20 - 30° C below the softening point of the model material. If some parts of the support structures can easily be separated from the model, use appropriate tools and manually remove them to reduce the time needed for the bath.

How to proceed with Z-SUPPORT ATP Activator:
• Fill your dissolving device with tap water. Use 4 l [135.26 fl oz] of water to dissolve 100 g [0.2205 lb] of Z-SUPPORT ATP Activator. Do not put any powder into an empty tank.
• Start the heating and circulation process of the water.
• Once the water has reached the target temperature and the Activator has been fully dissolved, put your model in the bath.
• The dissolving process can take between 0.5 to 9 hours, depending on the amount of support material and geometry of models. Check the process periodically.
• Remove the model from the bath once the support material is fully dissolved. Let it air-dry for at least 15 minutes. Rotate the model every few minutes to make sure the detergent fully drains off.

• Next, rinse the model thoroughly under warm, running water to remove the remaining detergent. Let the model air-dry.
• If white residue remains on the model's surface, put the model into a warm water bath (30 - 50° C) for at least one hour.
• 1 kg [2.2 lb] of Z-SUPPORT ATP Activator can dissolve at least 1 kg of support material. The more support material is being dissolved, the longer the whole process will take. When processing models with a lot of support, pause the procedure and replace the solution.
• The used up solution must be neutralized before disposal. Use 5 - 10 g [0.01 - 0.02 lb] of citric acid for each liter of water. Once you notice foam on the surface of the water, the solution has reached a neutral pH value.
• You should refer to your local wastewater regulations for more details on disposal of the solution.

3. Storage

Store the Z-SUPPORT ATP Activator in a tightly closed container to avoid agglutination and ensure proper functioning.

4. Contact Details

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