How alkaline batteries work

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Alkaline batteries are disposable batteries with zinc and manganese dioxide as electrodes. The alkaline electrolyte used is potassium. A typical battery needs 3 parts to create electricity:

A section of an alkaline battery is called a cell of the battery. A dry battery is a primary battery in the chemical power supply. It is a kind of disposable battery. It uses manganese dioxide as the positive electrode and zinc cylinder as the negative electrode to convert chemical energy into electrical energy to supply an external circuit. In the chemical reaction, because zinc is more active than manganese, zinc loses electrons and is oxidized, while manganese gets electrons and is reduced.

When we use alkaline batteries, sometimes the battery leaks or explodes. If you encounter this problem, don’t worry about it. The leakage is due to an internal short circuit. Open the sealing ring and the electric fluid inside will flow out. If the skin comes in contact with it, wash it off with water immediately.

The air volume in alkaline batteries is very small, so there is no need to worry about explosions, at most, the bottom of the negative electrode rushes out, generally within 20 cm, which will not cause serious damage to personnel.

I am a senior sales with 15 years in the battery industry and a bachelor"s degree in economics.I will be sharing some of my expertise on batteries and my insights into the battery industry in my blog, which should help you with your purchases in China.

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