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Battery Safety

The batteries in electronic cigarettes have a chemistry that is known as Lithium-ion (Li-ion). Li-ion batteries offer extremely high energy density (they store a lot of power in a small space), which is why they have been adopted for use in small, power-hungry devices such as mobile phones, laptops and electronic cigarettes. The high energy density enables a small battery to provide a useful amount of power, but if something causes the battery to fail in a way that releases this power quickly, the results can be dramatic, and dangerous. This has been seen in rare cases with pretty much every device that uses a Li-ion battery, from mobile phones to electric cars.

Always buy batteries from a reputable vendor (there are large numbers of mis/unbranded or counterfeit products on the market).

Never over-tighten either atomiser or charger into the battery. Screw things in until they work, and then stop; never screw in until it is as tight as you can make it.

Do not leave batteries charging unattended! (It's always better to be safe than sorry.)

If a battery or connector is damaged, do not use it (dents to the casing or damage to the connectors may be sign of physical damage to the battery or cause a short circuit)

Never leave batteries in your car. Extremes of both heat and cold can have negative effects on battery safety.

Always use the charger that matches the e-cigarette battery; (don't mix and match chargers and batteries from different brands or models)

Check that the contacts are free of e-liquid, or any other contamination, and clean with a cotton bud or tissue if needed.

Keep batteries, chargers and plugs dry. (Obvious, but important!)

It's also important to note that where an e-cig takes a separate battery, spares of these shouldn't be put in a pocket with keys, loose change or other metal objects, as these can make an electrical circuit between the ends of the battery, creating a short. The results of this can be to heat up the metal potentially causing burns, or to cause a failure of the battery.

Loose batteries should be kept in a storage case or bag, or even just have a little tape placed over the terminals to protect them (although given the tendency for tape to fill with fluff and lose its ability to stick, it is much better to use a robust case or bag)

If you are unsure if a particular battery is suitable for a new or high power mod, it's always a good idea to check - the supplier should be able to give you advice, or there are a number of active consumer forums (these can be found on our useful links page)

If bought from a reputable supplier, and looked after, e-cig batteries are no more dangerous than those found in any other devices - and e-cigs certainly offer fewer risks than continuing to smoke.