

# batterylife Activator Test Guidelines

## About the product:

The **batterylife Activator** is a Japanese invention (*with an international patent pending*). This unique innovation has been evaluated and its effects documented by several prestigious institutions and universities\*. It enables longer battery life as well as improved regeneration and utilization of the Li-Ion-battery.

## Advantages for the user:

- up to **30%** more talk time/battery runtime\*
- up to **30%** longer standby time\*
- up to **30%** more performance for only 4g more weight
- up to **40%** shorter charging time\*(environmentally-friendly)
- up to **30%** of longer battery lifetime\*(environmentally-friendly)
- easy to use - installed in seconds
- for all devices with used and new rechargeable Li-Ion batteries

\* The following institutes and universities have measured and documented the effect of this invention: University of Osaka, University of Kobe, SG Telecom S. Korea and NTT Docomo.

## Tested by TÜV Rheinland Group

**Test report No: 21117255\_001**

## Test Environment:

Ideally, the batterylife Activator should be tested during normal everyday use of the mobile phone in order to demonstrate its real benefits. However, to ensure the test conditions are identical for a comparative test, and to quantify the results, the Li-Ion-battery discharge time is measured whilst the phone is not being used (apart from its connection to the network).

Please note that the user guide instructions should be followed whenever installing the batterylife Activator.

It is essential that the rechargeable Li-Ion-battery, to be tested, has already been in operation for about 9 months.

Here are the instructions for measuring the batterylife Activator effect:

- Charge the battery in the mobile phone (without the Activator attached).
- Place the fully-charged phone in a room where continuous network service is available.
- Measure the time the battery voltage needs to discharge, whilst ensuring that the phone is not used and the network service does not change.
- Replace the battery with the battery Activator attached to the mobile phone.
- Charge the battery again and use the mobile phone for normal daily activity.
- After around 10 charging-discharging cycles of the mobile phone battery, start a second series of tests in the same manner as before and compare the discharge times.

**Important note:** Always recharge the battery whilst attached to the mobile phone. Between the two series of tests please allow the battery to pass through around 10 charging-discharging cycles.

**Don't change the test conditions between the first and the second test!**

# Operating principle of the batterylife Activator

The batterylife Activator technology was invented in Japan and extends the lifetime of a mobile phone battery. Using the batterylife Activator is very easy. Just attach the patch to the rechargeable Li-Ion-battery of the mobile phone. The Activator has an impact on every charging-discharging cycle.

The operating principle is quite simple!

During every charging and discharging cycle there is a flow of ions in the lithium-ion battery. This creates waste by-products that are stored within the battery. The waste material then hinders the subsequent flow of ions and decreases the life of the battery. After time, this leads to shorter talk-times.

The action of the batterylife Activator foil effectively removes the accumulated waste by-products and regenerates the Li-Ion-battery. After a few charging cycles the battery lifetime is increased.

The user will notice the regeneration effect of the batterylife Activator after 5 – 10 charging cycles by experiencing longer talk times and longer stand by times. The life time of the battery increases and the recharging time becomes shorter. Both of these factors are, of course, beneficial to the environment.

For further information please visit: <http://www.batterylife.de>