

## Handling Instruction for Lithium polymer battery

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### 1. Purpose of document

The main purpose of this document is that describe how to treat "Used battery/cell" in safe way for handling and recycling. This process will make "Used battery/cell" safe not to cause any dangerous behavior. If the "Used battery/cell" conducts whole procedure described in the document, it would become stable and safe for recycling.

### 2. Procedure for handling "Used battery/cell"

- 1) Discharge battery/cell fully down to below 2.70V individual cell.
- 2) Punch or tear the outer Al pouch using shape knife or nail.
- 3) Preparing salty water : 10% salty water by [Water 900g + Salt 100g] ratio
- 4) Sunk the "Used battery/cell" into this salty water
- 5) Keep it in the salty water for at least 1 month and sending recycling company

### 3. Precaution

- 1) If "Used battery/cell" is not fully discharged down to 2.70V/cell, it could causes problems.
  - If "Used battery/cell" is sunk into salty water in voltage higher than 2.70V, it could causes H<sub>2</sub> gas generation.
  - If "Used battery/cell" is torn or punched outer pouch in voltage higher than 2.70V, it could causes make fire.
- 2) If "Used battery/cell" is sunk into salty water without tearing or punching, it would **dn't be** dissolved completely.

### 4. Contents of major elements based on 53Ah/cell

Elements	in gram	Elements	in gram
Al foil	32	Co	69
Al pouch	6	Ni	97
Cu foil	110	Li	35
		Mn	90