



Lithium Battery

Cylindrical-type

Thin-type

Coin-

Environment

Precaution

Transport

Dimensions

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## Notes on Transportation

Lithium metal batteries are classified as Class 9 dangerous goods in the United Nations Recommendations, and given UN number 3090. In addition to the United Nations Recommendations, lithium metal batteries must also comply with IATA Dangerous Goods Regulations (IATA-DGR), International Maritime Dangerous Goods Code (IMDG Code), and Department of Transportation (DOT) regulations in the USA, Title 49 of Code of Federal Regulations (49 CFR). Regulations for lithium batteries will be amended irregularly as required and that it is important to refer to the latest IATA-DGR.

## Special Notes Regarding FDK Lithium Batteries

All of our lithium batteries are categorized as lithium metal batteries from a transportation regulation perspective. Our lithium batteries and shipping packages meet the requirements of subsection 38.3, Part III, UN Manual of Tests and Procedures. Package specifications of our lithium batteries comply with all requirements set down in the above-mentioned transportation regulations. If you pack lithium batteries for shipping and require related certification, please contact our relevant department through our original package for shipping and require related certification, please contact our relevant department through our original package for shipping. If you pack lithium batteries for shipping, please note that you will be responsible for related tests and certificates. Shipping agents may set their own rules of transportation, so please contact them in advance.

## Air transportation of our lithium batteries

### 1. Transportation of batteries packed by themselves (UN3090)

Air transportation of lithium cells and batteries by themselves is permitted on cargo aircraft only. The Packing Instructions (IATA-DGR) sets down three Sections for transport of lithium metal batteries packed by themselves as follows:

**Transport of batteries in accordance with Section I A**

Cells containing more than 1g of lithium or batteries (battery packs) containing more than 2g of lithium are applicable to Section I A, and it is permitted to transport them as Class 9 Dangerous Goods when they comply with all requirements<sup>※1</sup> of the transport conditions of Section I A.

**Transport of batteries in accordance with Section I B**

Cells containing more than 0.3g and less than 1g of lithium or batteries (battery packs) containing more than 0.3g and less than 2g of lithium are applicable to Section I B, and it is permitted to transport them without using a Class 9 Dangerous Goods container (packing) when they comply with all requirements<sup>※1</sup> of the transport conditions of Section I B.

**Transport of batteries in accordance with Section II**

Cells or batteries (battery packs) containing less than 0.3g of lithium are applicable to Section II, and it is permitted to transport them as Class 9 Dangerous Goods when they comply with all requirements<sup>※1</sup> of the transport conditions of Section II. In the case of cells, the number of cells per one package is 8 pieces or less, or the number of batteries per package is 2 pieces or less, and it is permitted to transport them as Class 9 Dangerous Goods when they comply with all requirements<sup>※1</sup> of the transport conditions of Section II. However, the number of packages per one air waybill is limited to one.

Lithium content/cell (battery)	Products
Over 1g (2g)	CR23500SE
1g(2g) and less ~ Over 0.3g	CR1/2 6-L, CR1/2 6LHT, CR2/3 6-L, CR2/3 6L, CR2/3 6LHT, CR2/3 8-L, CR6-L, CR8-L, CR8-LHC, CR8LH, CR12600SE, CR17335SE, CR17335SE-R, CR17450SE, CR17450SE-R, CR17355E-R, CR17450E-R, CR17450E-N, CR17335EF, CR17335HEF, CR17335EL, CR17335HE-R, CR17450HE-R, CR17450ENS, CR17450EG, CR17450ES, CR2, CR-V9J, CP-V9Ju, CR-P2, 2CR5, CR17450ESK, CR17335E-R
0.3g and less	CR14250SE, CR14250SE-R, CR1216, CR1220, CR1620, CR1632, CR2016, CR2025, CR2032, CR2450, CR2477, CR-1/3N, 2CR-1/3N, ML414, ML421, ML614, ML621, ML1220, ML2016, ML2430, ML410RU, ML414RU, ML614R, NBL414, NBL414R, TL410R, TL414R, UT614, UT621, CF042039(N), CF042722U(N), CF052722U(N), CF042223(N)
Section I B	Section I When the number of cell per package is 8 or less or the number of batteries per package is two or less, Section II is applied.

**2. Transportation of batteries mounted on applications or packed with applications**

If lithium content of cells is 1g or less or total lithium content of batteries is 2g or less, they are applicable to Section II and it is permitted to transport them as Class 9 Dangerous Goods when they comply with all requirements<sup>※1</sup> of the transport conditions of Section II. If the lithium content of cells is more than 1g or the total lithium content of batteries is more than 2g, they are applicable to Section I and permitted for transport as Class 9 Dangerous Goods when they comply with all requirements<sup>※1</sup> of the transport conditions of Section I.

※1: For more detailed information of transport conditions, please refer to IATA-DGR 61th edition

## Sea transportation of our lithium batteries

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If lithium content of cells is 1g or less or total lithium content of batteries (battery packs) is 2g or less, Special Provision 6.2 applies to them and they are permitted for transport as exempted dangerous goods when they comply with all requirements of IATA-DGR.

※2: For more detailed information of transport conditions, please refer to the latest version of IMDG-Code.

## Regulation for air transportation in the USA

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In the case of air transportation of lithium metal batteries in/to/from the USA, transport by passenger aircraft is forbidden. Please refer to the latest version of Parts 171, 172, 173 and 175 of the Federal Aviation Regulations (FAR) for the regulation "LITHIUM BATTERIES TRANSPORT ABOARD PASSENGER AIRCRAFT". Please refer to the latest version of Parts 171, 172, 173 and 175 of the Federal Aviation Regulations (FAR) for the regulation "LITHIUM BATTERIES TRANSPORT ABOARD PASSENGER AIRCRAFT".

**Ni-MH Battery**

High Durability for  
In-Vehicle Applications

High Durability

High-Rate Discharge

Standard

Dry Cell Compatible

Battery Pack,  
Battery System

Charger

Precaution

Transport      SDS

**Lithium Battery****Cylindrical-type**

- Primary Lithium Batteries - High Power
- Primary Lithium Batteries - High Capacity

Thin-type

**Coin-type**

- Primary Lithium Batteries
- Rechargeable Lithium Batteries

Environment

Precaution

Transport

Dimensions

SDS

UL

**Alkaline**

Premium

High Power

Universal

Environment

Precaution

SDS



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