FedEx Express does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.

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### Section IA
Acceptable to dangerous goods locations where UN3090 is not prohibited.

Cells greater than 1g and Batteries with an aggregate lithium content in excess of 2g.

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)

**Limit per package:**
Must be on CAO = 35kg

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### Section IB
Acceptable to dangerous goods locations where UN3090 is not prohibited.

Cells equal to or less than 1g; and Batteries the aggregate lithium content is not more than 2g.

- Shipper’s Declaration required in net weight KG.
- IB on Shipper’s Declaration after packing instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging.
- Lithium Battery Class 9 Hazard label (See Figure 1)
- Completed Lithium Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)
- Dangerous goods surcharge

**Limit per package:**
Must be CAO = 2.5kg

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### Section II
Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.

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1 In addition, check: http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf
2 AGGREGATE LITHIUM CONTENT - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]
### Section I
Acceptable to Dangerous goods locations Only.

- Cells greater than 1g; and Batteries with an aggregate lithium content greater than 2g. ²
  - Shipper’s Declaration required in net weight KG.
  - UN number, proper shipping name and shipper/consignee name and address on the package
  - UN specification packaging required (PGII standards)
  - Lithium Battery Class 9 Hazard label (See Figure 1)
  - Dangerous goods surcharge
  - The number of cells or batteries in each package must not exceed the number required for each equipment’s operation plus two spare sets.
  - A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment

**Limit per package (excludes equipment):**
- PAX = 5kg
- CAO = 35kg

### Section II
Acceptable to most locations.

- Cells equal to or less than 1g; and Batteries equal to or less than 2g
  - No Shipper’s Declaration
  - Strong rigid outer packaging
  - Completed Lithium Battery Mark if more than 4 cells and 2 batteries per package (See Figure 2)

**Exception**
The completed Lithium Battery Mark requirement does not apply to:
- packages containing only button cell batteries installed in equipment (including circuit boards) or
- consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment

- If Special Provision A213 is applicable, 1.5 g and 10 Wh limits per battery apply.
- No Dangerous goods surcharge

**Limit per package (excludes equipment):**
- PAX = 5kg
- CAO = 5kg

² **AGGREGATE LITHIUM CONTENT** - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]
LITHIUM ION BATTERIES

Section IA
Acceptable to dangerous goods locations where UN3480 is not prohibited.  
Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 35kg

~ Or ~

Section IB
Acceptable to dangerous goods locations where UN3480 is not prohibited.  
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- Shipper’s Declaration required in net weight KG.
- IB on Shippers Declaration after packing Instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Lithium Battery Class 9 Hazard label (See Figure 1)
- Completed Lithium Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 10kg

1 In addition, check: http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf
**LITHIUM ION BATTERIES**

**Section I**
Acceptable to dangerous goods locations Only.
Cells greater than 20Wh; and Batteries greater than 100Wh
- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label (See Figure 1)
- Dangerous goods surcharge
  - The number of cells or batteries in each package must not exceed the number required for each equipment’s operation plus two spare sets.
  - A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

**Section II**
Acceptable to most locations.
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
- No Shipper’s Declaration
- Strong rigid outer packaging
- Completed Lithium Battery Mark (See Figure 2)
- No Dangerous goods surcharge
  - The number of cells or batteries in each package must not exceed the number required for each equipment’s operation plus two spare sets.
  - A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

**Section II**
Acceptable to most locations.
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
- No Shipper’s Declaration
- Strong rigid outer packaging
- Completed Lithium Battery Mark if more than 4 cells and 2 batteries per package (See Figure 2)

**Exception**
The completed Lithium Battery Mark requirement does not apply to:
- packages containing only button cell batteries installed in equipment (including circuit boards) or
- consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment
- No Dangerous goods surcharge

Limit per package (excludes equipment):
PAX = 5kg
CAO = 5kg
Note:

• FedEx Express will not accept any item with an A183 Special Provision, even with a Competent Authority approval. Any battery powered device subject to a recall will only be accepted if the recall is not safety related and the battery does not have the potential to cause a fire or dangerous evolution of heat. [FX-04E]

• Lithium Batteries (Section I/IA/IB and Section II) must not be shipped in the same package with the following Hazard Classes/Divisions: 1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 8, or 2.2 with a Cargo Aircraft Only label. This includes All Packed in One and Overpacks.

Exception: If the only lithium batteries are those contained in temperature control devices and the lithium batteries are Section II. The package must also not require the Lithium Battery Mark and ELB (FedEx Express DG handling code for Section II batteries) must not be selected in the automation device. [FX-05C]

• Shippers sending any data loggers which remain active in flight (other than FedEx SenseAware) must be pre-approved. Contact the FedEx Dangerous Goods/Hazardous Materials hotline at (901)375-6806 or email: dghotline@fedex.com to begin the approval process. [FX-05D]

• Hoverboards or similar self-balancing vehicles will only be accepted from companies if new, in unopened original packaging. Used, refurbished balancing vehicles shipments form individuals, resellers or third party shipments will not be accepted. [FX-04F]

• Call FedEx customer service and ask for the International Hotline/ Specialist to check on commodity acceptability for international shipments

1 In addition, check: http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf

• Select ELB in your FedEx automation device, if selection is available for any Section II UN3091 or UN3481 required to be labeled with the Lithium Battery Mark.

![Class 9 Miscellaneous Dangerous Goods Hazard Label](image1)

![Lithium Battery Label](image2)

Class 9 Miscellaneous Dangerous Goods Hazard Label

Lithium Battery Label

Obsolete effective 01/01/19

The Class 9 label cannot be used as the hazard label for Section I/IA/IB shipments effective 01/01/19.

The Lithium Battery Class 9 hazard label must be used instead.

If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDEX and press “81” or say dangerous goods. Press “4” to reach next available agent.

**DISCLAIMER:**

This guide is based upon the 2020 IATA Dangerous Goods Regulations and provides a general overview of lithium battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

These materials are provided as a courtesy, to be used as guidelines to assist properly trained shippers. These materials do not alter, satisfy, or influence any governmental requirements. The contents of these materials are subject to change due to constant changes in government regulations. FedEx Express accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.
Lithium Battery Mark

This mark can be printed in color, completed as shown in the example on the right, and affixed to the package. When printing, be sure to select "No" for "Expand/reduce page."

Please understand that FedEx Express accepts no liability for loss or damage caused by using this data.

**Minimum size**
The mark must be in the form of a rectangle with hatched edging.
The mark must be a minimum dimension of 120 mm wide × 110 mm high and the minimum width of the hatching must be 5 mm.
If the size of the package so requires, the dimensions/line thickness may be reduced to not less than 105 mm wide × 74 mm high.

**Color**
The hatching must be red.
The symbol must be black on white or suitable contrasting background.

**Markings on the lithium battery mark**
The mark must indicates as below:
- The appropriate UN number preceded by the letters “UN” and it should be at least 12mm high
  - “UN3090” for lithium metal cells or batteries;
  - “UN3480” for lithium ion cells or batteries;
  - “UN3091” for lithium metal cells or batteries contained in, or packed with, equipment; or
  - “UN3481” for lithium ion cells or batteries contained in, or packed with, equipment.
- Where a package contains lithium cells or batteries assigned to different UN numbers, all applicable UN numbers must be indicated on one or more marks.

**A telephone number for additional information**
The telephone number required on the lithium battery mark can be a 24-hour monitored number, or other normal office hour number provided a person knowledgeable of the lithium batteries being shipped is readily available. The telephone number must start with the country code.

**On your Air Waybill**
Where a consignment includes packages bearing the lithium battery mark for Section II, the words must be included on the air waybill as below:
- “Lithium metal batteries in compliance with Section II of PI969” for UN3091 lithium metal cells or batteries packed with equipment;
- “Lithium metal batteries in compliance with Section II of PI970” for UN3091 lithium metal cells or batteries contained in equipment;
- “Lithium ion batteries in compliance with Section II of PI966” for UN3481 lithium ion cells or batteries packed with equipment;
- “Lithium ion batteries in compliance with Section II of PI967” for UN3481 lithium ion cells or batteries contained in equipment.

Example

UN3481
+81-3-9876-5432

Figure 2

Printed or other static representations of this document are considered uncontrolled and for reference-only.
Lithium Metal Batteries UN 3090 Section IA and Section IB

Due to an IATA regulation to prohibit transport of lithium metal batteries on passenger aircraft effective as of January 1, 2015, there will be certain restrictions in destinations where FedEx is able to accept lithium metal battery shipments.

FedEx will limit transport of UN3090 shipments to locations where Dangerous Goods are accepted via FedEx International Priority Service. However, depending on required routing, these shipments may need to be returned to shippers due to prohibitions on carrying such shipments aboard passenger aircraft.

This restriction only applies to lithium metal batteries when shipped by themselves, and does not apply to batteries packed with equipment or contained in equipment.

How to obtain preapproval

Shippers must be preapproved by FedEx Express Dangerous Goods Administration in order to ship lithium metal batteries, UN 3090 Section IA and Section IB.

Note:

Effective Jan. 1, 2017, FedEx Express will no longer accept UN 3090 or UN 3480 lithium batteries tendered to us as IATA Section II. Instead, these shipments must be tendered as fully regulated Section I (either Section IA or Section IB).

Shippers who are on the UN 3090 Section II preapproved list will automatically be placed on the UN 3090 Section I list. You will not need to reapply for preapproval. The Section II Exception Label can no longer be used effective Jan. 1, 2017.

Obtain Preapproval

Shippers must submit the following information to be considered by FedEx Express Dangerous Goods Administration for approval to ship lithium metal batteries:

1. FedEx account number
2. Company name and complete address (include country for orders outside the U.S.)
3. Contact name(s) and phone number (in case of questions related to the preapproval)
4. Type of preapproval requested (fully regulated UN 3090, lithium metal batteries)
5. A detailed description and digital photos or diagrams of your inner packaging. Packaging must be designed to protect the battery terminals from contact with another lithium battery or cell (or metal or any item that is capable of conducting electricity) in order to prevent short-circuiting.
6. Proof of UN38.3 test

Submit the above information to UN3090preapprovalrequest@fedex.com. Information must be submitted in English. Please allow two business days for a response from FedEx. If you are unable to send your request via email, please contact the Customer Service Hotline at 0120-003200 to discuss other means to submit your request for approval.

DISCLAIMER:

This guide is based upon the 2020 “IATA Dangerous Goods Regulations” and provides a general overview of lithium battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

These materials are provided as a courtesy, to be used as guidelines to assist properly trained shippers. These materials do not alter, satisfy, or influence any governmental requirements. The contents of these materials are subject to change due to constant changes in government regulations. FedEx Express accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.

01/2020