



# Lithium battery shipping requirements are based on what criteria

Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/battery type, configuration, or size. DOT is committed to ensuring that information is available in appropriate alternative formats to meet the requirements of persons who have a disability.

The provisions of the DGR with respect to lithium batteries may also be found in the IATA lithium Battery Shipping Regulations (LBSR) 9. th. Edition. In addition to the content from the DGR, the LBSR also has additional classification flowcharts and detailed packing and documentation examples for lithium batteries.

Consolidate requirements for shipping lithium cells and batteries, and exceptions into 173.185, by: Requiring cells and batteries to be tested in accordance with the latest revisions to the UN Manual of Tests and Criteria, and require manufacturers to retain evidence of successful completion of UN testing.

In this document, the term lithium batteries is used to refer to both lithium ion and lithium metal batteries. Lithium batteries are dangerous goods, much like gasoline, propane, and sulphuric acid. Lithium batteries are used in many electronic devices such as cameras, cell phones, laptop computers, medical equipment and power tools.

Requirements for lithium cells and batteries . Recommendations on shipping active devices . Frequently Asked Questions . Additional Information . This document is based on the provisions set out in the 2022 Edition of the ICAO Technical 2021 ... The provisions of the DGR with respect to lithium batteries may also be found in the IATA lithium ...

Packages containing lithium batteries, or lithium batteries contained in, or packed with, equipment that meet the provisions of Section II of these packing instructions are not required to have a Class 9 hazard label and there is no requirement for a Shipper's Declaration for Dangerous Goods for consignments of these batteries.

The shipping of lithium batteries is significantly impacted by stringent regulations due to their classification as dangerous goods. Understanding these regulations is crucial for safe and compliant shipping practices. This article provides an in-depth examination of how various regulations affect the shipping of lithium batteries, highlighting key aspects including ...

Please note that these shipping guides are based on the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) and can be used ... carriers have supplemental policies and/or limitations with respect to lithium battery shipments. These requirements can often be found by ... Manual of Tests and Criteria, Section 38.3. The UN 38.3 testing ...

2020 LITHIUM BATTERY SHIPPING GUIDE . JANUARY 14, 2020 . The following guide provides a summary of marking, labeling and paperwork requirements for shipping lithium batteries via domestic US



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ground (49 CFR 171-180 in effect 1-Jan-2020), international air (2020 IATA DGR, 61 ... 38.3 of the UN Manual of Tests and Criteria. Lithium cells and ...

Here are some of the criteria for shipping lithium-ion batteries by air: State of charge Lithium-ion batteries must be packaged in compliance with regulations including UN3480, UN3481, and IATA-specific rules.

This document is based on the provisions set out in the -2018 Edition of the 2017 ... 5 Goods Regulations (DGR). The provisions of the DGR with respect to lithium batteries may also be found in the IATA lithium Battery Shipping Guidelines (LBSG). In addition to the content from the ... and Criteria, is as follows: Battery means two or more ...

Based on the mass of lithium in the anode of a lithium metal or lithium alloy cell (for primary cells and batteries) and equivalent lithium content (for lithium ion cells and batteries), the shipping regulations outlined in the chart below are currently in effect or go into effect on January 1, 2008. However, the U.S.

packaging and shipment of lithium metal and lithium ion batteries. Safety test criteria are ... Although these regulations are based on UN/DOT 38.3 battery safety test criteria and rely heavily on packaging/shipping guidelines provided in 49 CFR ... recommending a prohibition against shipping lithium-ion batteries as cargo on passenger aircraft.

Transport Document: For lithium battery shipments, this specifies the UN number, shipping name, hazard class, packing group, and total quantity. Pilot Notification: For shipping lithium batteries by air, pilots must receive written information on the presence and location of lithium batteries.

One of the key regulations is the UN Manual of Tests and Criteria, which provides guidelines for the classification, testing, and packaging of lithium batteries. ... The classification of lithium batteries is based on their chemistry, design, and capacity. ... The requirements for shipping lithium batteries by sea include properly packaging the ...

&quot;Lithium ion batteries, in compliance with Section II of PI967&quot;on AWB. A telephone number is no longer required on the lithium battery mark. Lithium battery marks with a phone number may continue to be applied until December 31, 2026. NOTE: the requirement to apply lithium battery mark does not apply to: -- packages containing only button cell

Our guidelines for shipping lithium batteries will help make sure you meet all standards for safely shipping batteries. ... Some of the FedEx Express operator variations published in the current IATA regulations are specific to lithium batteries: FX-04 (f) and FX-05 (a)-(c). ... (i.e., tested) to meet the requirements of each test in the UN ...

Why are Lithium Batteries Regulated in Transportation? ... traceability and accountability to ensure that



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lithium cell and battery designs offered for transport meet UN 38.3 test requirements. Check with the battery manufacturer, distributor, or product vendor to determine if a battery design has passed these tests or obtain the test summary ...

Each module is based on one or more of the following requirements. Upon completion of this program, the participants will have completed the following: ... Hazmat School provides safety training for employees who perform duties that must comply with DOT and OSHA requirements. Our Lithium Battery Shipping training courses are entirely online ...

When Excell Battery is involved in the design of a lithium battery, a discussion of the UN 38.3 test requirements will occur with the customer to ensure compliance with shipping regulations. In many cases, a Test Summary can be issued ...

Shipped out of USA. When shipping papers (Bill of lading forms, Dangerous Goods Declaration forms) are required, all lithium battery shipments to, from or through the United States must have written emergency response information accompany the shipment.

The HMR apply to any material DOT determines can pose an unreasonable risk to health, safety, and property when transported in commerce. Lithium batteries must conform to all applicable HMR requirements when ...

Most fully regulated packages of lithium batteries and cells require UN Specification packaging. All packages of small and medium lithium batteries require some degree of testing. However, small and medium lithium batteries and cells do not require UN Specification packaging

All lithium/lithium ion cells and batteries are regulated as Class 9 "hazardous materials" or "dangerous goods" for shipping domestically & internationally There are exceptions to the HMR & IATA regulations for "small" lithium/li-ion batteries based on amount of lithium in these batteries

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transportation safety testing for all lithium metal and lithium ion cells and batteries. The test criteria span 8 different tests (T1 - T8) and are all are focused on hazards ... Although these regulations are based on UN/DOT 38.3 battery safety test criteria and rely heavily on packaging/shipping guidelines provided in 49 CFR ... recommending ...

What are the shipping requirements for lithium batteries based on? The shipping requirements for lithium batteries are based on a set of criteria that determine how they should be handled and shipped. These criteria take into account various factors such as the type of battery, its capacity, and the mode of transportation.

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The provisions of the DGR with respect to lithium batteries may also be found in the IATA lithium Battery Shipping Guidelines (LBSG) 8. th. Edition. In addition to the content from the DGR, the LBSG also has additional classification flowcharts and detailed packing and documentation examples for lithium batteries.

Compliantly shipping lithium-ion batteries of any size means navigating a complex set of regulations. And, generally speaking, the bigger the batteries get, the more challenging they are to transport compliantly. When you're moving large format lithium-ion batteries--like the ones for electric vehicles, solar power storage, data centers and other heavy-duty purposes--you ...

This publication directs readers to scenario-based shipping guides that outline the requirements to ship packages of lithium cells and batteries in various configurations. Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/battery type, configuration, or size.

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