

---

**LITHIUM BATTERIES**  
**IATA DGR 55th EDITION**

# 2014 LITHIUM BATTERIES REGULATIONS

An accompanying “**Transport Document**” is required for all Lithium Battery shipments under Section II.

Click on the document to enlarge

Air Waybill / HAWB:	
Shipper:	Consignee:

**WARNING:** LITHIUM BATTERIES THAT HAVE BEEN RECALLED BY THE MANUFACTURER FOR SAFETY REASONS MUST NOT BE SHIPPED BY AIR.

**Terminology:**

- Cell – electrochemical unit, consisting of an anode and a cathode, capable of generating electrical current
- Battery – assembly of cells
- Lithium ion cells/batteries – rechargeable – includes lithium polymer cells/batteries
- Lithium metal cells/batteries – generally non-rechargeable

This package contains lithium cells or batteries in the following configuration (tick applicable box):

Lithium Ion – Maximum of	Lithium Metal – Maximum of
<ul style="list-style-type: none"> <li>• 20 Watt hours per cell, and</li> <li>• 100 Watt hours per battery</li> </ul> <input type="checkbox"/> Cells or batteries <u>only</u> (ICAO/IATA Packing Instruction 965, Section II) – Cells or batteries in a package, without electronic equipment <b>Package Limit:</b> <2.7Wh = 2.5kg; or >2.7Wh but ≤ 20Wh = 3 cells; or >2.7Wh but ≤ 100Wh = 2 batteries	<ul style="list-style-type: none"> <li>• 1 gram of lithium metal per cell, and</li> <li>• 2 grams of lithium per battery</li> </ul> <input type="checkbox"/> Cells or batteries <u>only</u> (ICAO/IATA Packing Instruction 968, Section II) – Cells or batteries in a package, without electronic equipment <b>Package Limit:</b> <0.3g = 2.5kg; or >0.3g but ≤ 1g = 3 cells; or >0.3g but ≤ 2g = 2 batteries
<input type="checkbox"/> Cells or batteries <u>only</u> (ICAO/IATA Packing Instruction 965, Section III) – Cells or batteries in a package, without electronic equipment	<input type="checkbox"/> Cells or batteries <u>only</u> (ICAO/IATA Packing Instruction 968, Section III) – Cells or batteries in a package, without electronic equipment
<input type="checkbox"/> Packed <u>with equipment</u> (ICAO/IATA Packing Instruction 966, Section II) – Cells or batteries contained in a package with associated electronic equipment	<input type="checkbox"/> Packed <u>with equipment</u> (ICAO/IATA Packing Instruction 969, Section II) – Cells or batteries contained in a package with associated battery-powered equipment – with the batteries not installed in the equipment
<input type="checkbox"/> Contained <u>in equipment</u> (ICAO/IATA Packing Instruction 967, Section II) – > 4 Cells or 2 batteries installed in equipment	<input type="checkbox"/> Contained <u>in equipment</u> (ICAO/IATA Packing Instruction 970, Section II) – > 4 Cells or 2 batteries installed in equipment

> This package must be handled with care. A flammability hazard exists if the package is damaged.  
 > If this package is damaged in transportation, it must not be loaded until the condition of the contents can be verified. The batteries contained in this package must be inspected for damage and may only be repacked if they are intact and protected against short circuits.  
 > For more information about the batteries contained in this package, call the following telephone number: \_\_\_\_\_

Use signature number form, including date code and any applicable country code.  
 Name / Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Note:**  
 This document must be used for Section II only in combination with Shipper Declaration. Mandatory for Section II from 1<sup>st</sup> Jan 2014 and for Section III from 1<sup>st</sup> April 2014.

V.1.4 Jan 2014

# LITHIUM BATTERIES

---

## Step 1 – What type of battery are you shipping?

### Lithium Ion Batteries

Rechargeable batteries commonly used in consumer electronics.  
Most popular battery for portable electronic devices like laptops, mobile phones, MP3 players, camcorders etc.  
A fire involving Lithium Ion batteries can be extinguished by an aircraft halon fire extinguisher.

### Lithium Metal Batteries

Non-rechargeable.  
Longer life than the normal alkaline batteries and can be used in toys, cameras, etc.  
A fire involving Lithium Metal batteries can NOT be extinguished by an aircraft halon fire extinguisher.

# LITHIUM ION BATTERIES

## Step 2 – How are you shipping them?

Batteries packed  
loose (in bulk)



Batteries packed  
with equipment  
(separately in the  
same package)



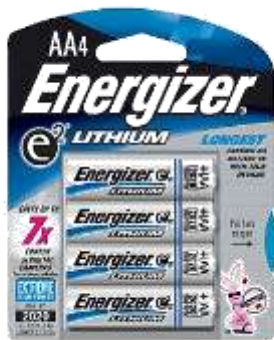
Batteries contained in  
equipment



# LITHIUM METAL BATTERIES

## Step 2 – How are you shipping them?

Batteries packed  
loose (in bulk)



Batteries packed  
with equipment  
(separately in the  
same package)



Batteries contained in  
equipment



# LITHIUM ION BATTERIES

## Step 3 – How much watt per hour\* does your battery have?

Cells and  
Batteries  
 $\leq 2.7$  watt/hour

Cells  
 $> 2.7$  watt/hour  
but  
 $\leq 20$  watt/hour

Batteries  
 $> 2.7$  watt/hour  
but  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
Batteries  $>$   
 $100$  watt/hour

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked on the battery).



# LITHIUM METAL BATTERIES

## Step 3 – How much Lithium does your battery contain?

Cells and  
Batteries  
 $\leq 0.3 \text{ g}$

Cells  
 $> 0.3 \text{ g}$   
but  
 $\leq 1 \text{ g}$

Batteries  
 $> 0.3 \text{ g}$   
but  
 $\leq 2 \text{ g}$

Cells  
or Batteries

- A Cell is a single powered unit
- A Battery is a number of cells connected to each other



# LITHIUM ION BATTERIES

---

Step 4 – How many cells does your package have in total?

$\leq 8$  Cells

$> 8$  Cells

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.





# LITHIUM ION BATTERIES

Step 4 – How many batteries does your package have in total?

$\leq 2$  Batteries

$> 2$  Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



# LITHIUM METAL BATTERIES

---

Step 4 – How many cells does your package have in total?

$\leq 8$  Cells

$> 8$  Cells

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



# LITHIUM BATTERIES

---

Step 4 – How many cells does your package have in total?

$\leq 2$  Batteries

$> 2$  Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



# LITHIUM ION BATTERIES

## Step 3 – How much watt per hour\* does your battery have?

Cells  
 $\leq 20$  watt/hour  
or Batteries  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
or Batteries  
 $> 100$  watt/hour

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked on the battery).



# LITHIUM ION BATTERIES

---

## Step 3 – How much watt per hour\* does your battery have?

Cells  
 $\leq 20$  watt/hour  
or Batteries  
 $\leq 100$  watt/hour

Cells  
 $> 20$  watt/hour  
or Batteries  
 $> 100$  watt/hour

\*The watt per hour must be marked on the outside of the battery, for batteries manufactured since January 2009. Laptops, mobile phones and other small consumer electronics have batteries with less than 100 watt/hour (except perhaps some extra duration batteries – use the formula **Ampere hours x Voltage** in case the watt per hour is not marked on the battery).



# LITHIUM METAL BATTERIES

---

## Step 3 – How much Lithium does your battery contain?

Cells  
 $\leq 1$  g  
or Batteries  
 $\leq 2$  g

Cells  
 $> 1$  g  
or Batteries  
 $> 2$  g



# LITHIUM METAL BATTERIES

---

## Step 3 – How much Lithium does your battery contain?

Cells  
 $\leq 1$  g  
or Batteries  
 $\leq 2$  g

Cells  
 $> 1$  g  
or Batteries  
 $> 2$  g



# LITHIUM ION BATTERIES

---

**Step 4 – How many cells/batteries does your package have in total?**

$\leq 4$  Cells  
or  
 $\leq 2$  Batteries

$> 4$  Cells  
or  
 $> 2$  Batteries

Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells/batteries) per overpack.





# LITHIUM METAL BATTERIES

---

**Step 4 – How many cells/batteries does your package have in total?**

$\leq 4$  Cells  
or  
 $\leq 2$  Batteries

$> 4$  Cells  
or  
 $> 2$  Batteries


Note: Do not confuse package with overpack. There are no restrictions for the number of packages (and therefore cells) per overpack.



# LITHIUM BATTERIES

## UN3480, Lithium Ion Batteries – Packing Instruction 965 Section II





Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required)</li> </ul> <p>Strong outer packaging</p> <p>Maximum 2.5 kg net quantity per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium ion cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required</p> <p>Notoc entry required</p>

# LITHIUM BATTERIES

## UN3480, Lithium Ion Batteries – Packing Instruction 965 Section IA




Packaging	Package Tests	Documentation	Labeling	LAN Product Available
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging</li> </ul> <p>UN specification packaging</p> <p>Maximum 5 kg Net quantity per package for PAX shipments</p> <p>Maximum 35 kg Net quantity per package for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	 <p>(CAO if applicable)</p> 	<p>Booking mentioning Section II is required</p>
			<p>Notoc entry required</p>	

# LITHIUM BATTERIES

## UN3480, Lithium Ion Batteries – Packing Instruction 965 Section II




Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required)</li> </ul> <p>Strong outer packaging</p> <p>Maximum 8 cells per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI965”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium ion cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required</p> <p>Notoc entry required</p>

# LITHIUM BATTERIES

## UN3480, Lithium Ion Batteries – Packing Instruction 965 Section II





Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packaging that completely enclose the cell/battery then placed in a strong rigid outer packaging (UN specification not required)</li> </ul> <p>Strong outer packaging</p> <p>Maximum 2 batteries per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of P1965”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium ion cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required</p> <p>Notoc entry required</p>

# LITHIUM BATTERIES

## UN3480, Lithium Ion Batteries – Packing Instruction 965 Section IB




Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required)</li> </ul> <p>Maximum 10 kg gross weight per package for PAX &amp; CAO</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>1.2m drop tested</p>	<p>Shipper's Declaration</p> <p>The following statement is required on the AWB/MAWB: "Dangerous Goods as per attached DGD" or "Dangerous Goods as per attached Shipper's Declaration"</p> <p>An accompanying document which states the following:  with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX" "Package contains lithium ion cells or batteries. Handle</p>	<div style="text-align: center;">     </div> <p style="text-align: center;">Notoc entry required!</p>	<p>Booking mentioning Section II is required</p>

# LITHIUM BATTERIES

## UN3481, Lithium Ion Batteries packed with equipment – Packing Instruction 966 Section II





Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging (UN specification not required)</li> </ul> <p>Maximum number of Batteries: those necessary to power the equipment plus 2 spares</p> <p>Maximum 5 kg net qty of Lithium batteries or cells per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI966”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium ion cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required</p> <p>Notoc entry required</p>

# LITHIUM BATTERIES

## UN3481, Lithium Ion Batteries – Packing Instruction 966 Section I




Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging</li> </ul> <p>UN specification packaging</p> <p>Max. 5 kg net qty (excl. equipment) for PAX shipments Max. 35 kg net qty (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards for the package containing batteries</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div style="text-align: center;">  <p>(CAO if applicable)</p>  </div>	<p>Booking mentioning Section II is required</p>
			<p>Notoc entry required</p>	



# LITHIUM BATTERIES

## UN3481, Lithium Ion Batteries contained i equipment - Packing Instruction 967 Section II





Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be protected against short circuit and unintended movement. Devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net quantity of Lithium-Ion cells/batteries per package (excluding equipment).</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Ion Batteries in compliance with Section II of PI967”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium ion cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required</p> <p>Notoc entry required</p>

# LITHIUM BATTERIES


## UN3481, Lithium Ion Batteries contained in equipment – Packing Instruction 967 Section I



Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be protected against short circuit and unintended movement. Devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>Shipper's Declaration Master Air Waybill</p>	<p> (CAO if applicable)</p> <p></p>	<p>Booking mentioning Section II is required</p>
			<p>Notoc entry required</p>	

# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries – Packing Instruction 968 Section II



Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging</li> </ul> <p>(UN specification not required)</p> <p>Maximum 2.5 kg net quantity per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking mentioning Section II is required as CAO only</p> <p>Notoc entry required</p>

Shipping to the US?



# LITHIUM BATTERIES

## UN3490, Lithium Metal Batteries – Packing Instruction 968 Section IA


Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging</li> </ul> <p>If shipped as PAX:</p> <ul style="list-style-type: none"> <li>- Batteries/cells must be packed in either a rigid metal intermediate or a metal outer packaging</li> <li>- Batteries/cells must be surrounded by cushioning material that is non-combustible / non-conductive</li> </ul> <p>UN-packaging required</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	 <p>(CAO if applicable)</p> 	<p>Booking required as CAO only</p>
			<p>Notoc entry required</p>	

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries – Packing Instruction 968 Section II


Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging</li> </ul> <p>(UN specification not required)</p> <p>Maximum 8 cells per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking required as CAO only</p> <p>Notoc entry required</p>

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries – Packing Instruction 968 Section II




Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging</li> </ul> <p>(UN specification not required)</p> <p>Maximum 2 batteries per package</p>	<p>1.2m drop tested</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI968”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking required as CAO only</p> <p>Notoc entry required</p>

Shipping to the US?



# LITHIUM BATTERIES

## UN3090, Lithium Metal Batteries – Packing Instruction 968 Section IB

Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in a strong rigid outer packaging (no UN specification required)</li> </ul> <p>Maximum 2.5 kg gross weight per package for PAX &amp; CAO</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>1.2m drop tested</p>	<p>Shipper's Declaration</p> <p>“Dangerous Goods as per attached DGD” or “Dangerous Goods as per attached Shipper's Declaration”</p> <p>An accompanying document which states the following: “Package contains lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>	  <p>(CAO if applicable)</p> 	<p>Booking required as CAO only</p>
			<p>Notoc entry required</p>	

Shipping to the US?




# Packing Instruction 969 Section II

## LITHIUM BATTERIES

### UN3090, Lithium Metal Batteries packed with equipment – Packing Instruction 969 Section II



Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"><li>- protected against a short circuit</li><li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging (UN specification not required)</li></ul> <p>Maximum number of batteries: those necessary to power the equipment plus 2 spares</p> <p>Max. 5 kg net qty of Li.-metal cells/ batt. per package (excl. equipment)</p>	1.2m drop tested	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI969”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking required as CAO only</p> <p>Notoc entry required</p>



Shipping to the US?



# LITHIUM BATTERIES

## UN3091, Lithium Metal Batteries packed with equipment – Packing Instruction 969 Section I




Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be</p> <ul style="list-style-type: none"> <li>- protected against a short circuit</li> <li>- placed in inner packagings that completely enclose the cell/battery then placed in an outer packaging</li> </ul> <p>If shipped as PAX:</p> <ul style="list-style-type: none"> <li>- Batteries/cells must be packed in either a rigid metal intermediate or a metal outer packaging</li> <li>- Batteries/cells must be surrounded by cushioning material that is non-combustible / non-conductive</li> </ul> <p>UN-packaging required</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Packing Group II performance standards for the package containing batteries</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div style="text-align: center;">  <p>(CAO if applicable)</p>  </div>	<p>Booking required as CAO only</p>
			<p>Notoc entry required</p>	

Shipping to the US?

# LITHIUM BATTERIES

## UN3091, Lithium Metal Batteries contained in equipment – Packing Instruction 970 Section II



Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be protected against short circuit, any devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>Max. 5 kg net quantity of Li.-metal cells/batteries per package (excluding equipment)</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>The following statement is required on the waybill:</p> <p>“Lithium Metal Batteries in compliance with Section II of PI970”</p> <p>An accompanying document which states the following:</p> <p>“Package contains Lithium metal cells or batteries. Handle with care. When package is damaged can cause fire. Special procedures should be followed: inspect the package and arrange repack by qualified persons when required. Contact Nr: 00XX XXXX XXX XXX”</p>		<p>Booking required as CAO only</p> <p>Notoc entry required</p>

Shipping to the US?

# LITHIUM BATTERIES



## UN3091, Lithium Metal Batteries contained in equipment – Packing Instruction 970 Section I

Packaging	Package Tests	Documentation	Labeling	LAN Product
<p>Each battery/cell must be protected against short circuit, any devices containing batteries or cells must be protected against accidental activation.</p> <p>UN specification packaging is not required. Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.</p> <p>The quantity of lithium metal contained in any piece of equipment must not exceed 500 g per battery and 12 g per cell.</p> <p>Max. 5 kg net (excl. equipment) for PAX shipments Max. 35 kg net (excl. equipment) for CAO shipments</p> <p>PAX = Passenger aircraft CAO = Cargo aircraft</p>	<p>Strong package equivalent to its capacity and intended use</p>	<p>Shipper's Declaration</p> <p>Master Air Waybill</p>	<div data-bbox="1464 589 1638 758" data-label="Image"> </div> <p>(CAO if applicable)</p> <div data-bbox="1464 911 1624 1039" data-label="Image"> </div>	<p>Booking required as CAO only</p>
			<p>Notoc entry required</p>	

Shipping to the US?

# ADDITIONAL REQUIREMENTS AS PER USG-02

---

Primary (non-rechargeable) lithium metal batteries and cells (UN 3090), are forbidden for transportation aboard passenger-carrying aircraft. Such batteries transported in accordance with **Section IA and IB of Packing Instruction 968** must be labelled with the **CARGO AIRCRAFT ONLY** label.

Primary (non-rechargeable) lithium metal batteries and cells contained in or packed with equipment (UN3091) prepared in accordance with **Section II of Packing Instruction 969 or 970**, and being non-conform to at least one of the following provisions:

- the package contains no more than the number of lithium metal batteries or cells necessary to power the intended piece of equipment
- the lithium content of each cell, when fully charged, is not more than 5 grams
- the aggregate lithium content of the anode of each battery, when fully charged, is not more than 25 grams
- the net weight of lithium batteries does not exceed 5 kg (11 lb)

must be marked

**PRIMARY LITHIUM BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT**

or

**LITHIUM METAL BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT**

as appropriate.



# LITHIUM BATTERIES

## UN3091, Lithium Metal Batteries contained in equipment – Packing Instruction 970 Section II



Packaging	Package Tests	Documentation	Labeling	LAN Product
Strong outer packaging	N/A	N/A	N/A	N/A

# LITHIUM BATTERIES

## UN3481, Lithium Metal Batteries contained in equipment – Packing Instruction 967 Section II



Packaging	Package Tests	Documentation	Labeling	LAN Product
Strong outer packaging	N/A	N/A	N/A	N/A