

## Dangerous Goods that may be carried under certain Conditions

**Introduction** Some baggage falling into the category of dangerous goods may be carried under certain conditions. Such items are outlined in this topic in alphabetical order with a description of the conditions to be observed.

Please also be aware that the limitations for liquids in cabin baggage also apply for the items mentioned below.

**Aerosols** Description: Aerosols with no subsidiary risk, for sporting and home use.

Checked baggage:	Yes
Cabin baggage:	No
Approval of carrier required:	No

Rule: Release valves on aerosols must be protected by a cap or other suitable means to prevent inadvertent release of the contents

Reference: Please also see "Medicinal or toilet articles" below.

### Alcoholic beverages

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	No

Rules:

- In retail packaging, containing more than 24% but not more than 70% alcohol by volume
- In receptacles not exceeding 5 litres (90 fluid ounces = 5 qt)
- Total net quantity of 5 litres per passenger

Note: Alcoholic beverages containing 24% or less alcohol by volume are not restricted, including small barrels of beer (party kegs) as they are not under high pressure. This does not include pressurised barrels or bottles with carbon dioxide or similar gas, as used in gastronomy.

**Ammunition  
(cartridges for  
weapons)**

Description: Securely boxed ammunition (cartridges for weapons) for sporting purposes in Division 1.4S.

Checked baggage:	Yes
Cabin baggage:	No
Approval of carrier required:	Yes

Rules:

- Arms and ammunition must be packed in two separate bags. If necessary, a baggage box has to be used to separate both items. Arms must be discharged.
- Ammunition carried in passenger aircraft must be for personal use only for sporting and/or hunting purposes.
- Only ammunition classified 1.4S, UN0012 or UN0014 may be accepted.
- Only 5 kg (11lb) gross weight of ammunition per passenger (must be weighed) for own use.
- Ammunition must be securely boxed, e.g. customary trade packing

Forbidden:

- Ammunition with explosive or incendiary projectiles.
- Black powder must never be transported.

**Avalanche  
rescue  
backpacks**

Description: Equipped with a pyrotechnic trigger mechanism containing less than 200 mg net explosives of division 1.4S and less than 250 ml of compressed gas of division 2.2.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Rules:

- Only one per passenger is allowed.
- Not allowed to be carried on one's person.
- The backpack must be packed in a manner to prevent accidental activation.
- The airbag within the backpack must be fitted with pressure relief valves.
- The gas cylinders shall only be accepted if integrated in the

backpack. Spare cylinders or removed cylinders shall not be accepted.

- Additional activation handles including cartridges are permitted. Spare cartridges for the handles shall not be accepted.

**Batteries, non-spillable (dry, gel type, lithium ion)**

Description: Batteries used for wheelchairs and other mobility devices.

Checked baggage:	Yes
Cabin baggage:	No
Approval of carrier required:	Yes

Rules:

- The battery must be securely attached to the wheelchair or mobility device
- The battery terminals must be protected against short circuits, e.g. by being enclosed within a battery container
- If powered by a lithium ion battery, the battery must meet the requirements of the UN Manual of Tests and Criteria, Part III, section 38.3. Passengers have to prove this at time of reservation or check-in, e.g. by showing a certificate of the manufacturer or by giving a written statement themselves.

**Batteries, spillable (wet)**

Description: batteries used for wheelchairs and other mobility devices.

Checked baggage:	Yes
Cabin baggage:	No
Approval of carrier required:	Yes

Rules:

- The battery can only be accepted if it can be loaded, stowed, secured and unloaded in an upright position.

If this is not possible, the battery must be removed and the wheelchair must only be accepted without battery. The battery then has to be shipped as cargo.

- The battery must be securely attached to the wheelchair or mobility device
- The battery must be disconnected
- The battery terminals must be protected against short circuits, e.g. by being enclosed within a battery container.

**Camping stoves** Description: Camping stoves and fuel containers that have contained a flammable liquid fuel.

Checked baggage:	Yes
Cabin baggage:	No
Approval of carrier required:	Yes

Rules:

- The fuel tank of the camping stove has to be completely drained of all liquid fuel and fumes.
- The cap has to be securely fastened.
- The fuel tank and/or container has to be wrapped in a absorbent material, such as a paper towel, and placed in a polyethylene or equivalent bag sealed or closed at the top with an elastic band.

**Carbon dioxide cylinder, non-flammable, non-toxic (self-inflating life jacket)** Description: Two small cylinders containing carbon dioxide or other suitable gas in division 2.2 per person, fitted into a self-inflating life jacket plus up to two spare cartridges.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Note: Net weight max. 60g and net volume max. 120ml per cylinder.

**Chemical agent**

**monitoring  
equipment**

Description: When carried by staff members of the Organization for the Prohibition of Chemical Weapons on official travel.

Checked baggage: Yes  
Cabin baggage: Yes  
Approval of carrier required: Yes

**Fuel cell  
systems and  
spare fuel  
cartridges**

Description: Fuel cell systems and spare fuel cartridges powering portable electronic devices, for example cameras, cellular phones, lap-top computers and camcorders.

Checked baggage: No  
Cabin baggage: Yes  
Approval of carrier required: No

Rules:

- Maximum 2 per passenger are allowed.
- Fuel cell systems must be durably marked by the manufacturer "approved for carriage in aircraft cabin only", and with the manufacturers certification that it conforms to specifications of IEC PAS 62282-6-1 Ed. 1
- Each fuel cell cartridge must be marked with the manufacturers' certification that it conforms to specifications of IEC PAS 62282-6-1 Ed.1, and with the maximum quantity and type of the cartridge.

Maximum quantities for each fuel cell cartridge are:

- for liquids: 200 ml
- for solids: 200 g
- for liquefied gases: 120 ml for non metallic cartridges, or 200 ml for metal fuel cell cartridges
- for hydrogen in metal hydride: a water capacity of 120 ml or less.

- Fuel cell refills or fuel cell systems whose only function is to charge a battery in the device are not permitted.
- Refuelling of fuel cells on board an aircraft is not permitted, except that the installation of a spare cartridge is allowed

**Dry ice (carbon  
dioxide, solid)**

Description: Solid dry ice (carbon dioxide) when used to pack perishables not subject to these Regulations.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Rules:

- Max. 2,5 kg (5 lbs) per passenger.
- The package must permit the release of carbon dioxide gas.
- Each checked bag containing dry ice must be marked with the additional tag "Dry Ice".

Note: Passengers using this exemption are limited to a maximum of 2,5 kg in carry-on and checked baggage combined.

**Gas cylinders,  
non-flammable,  
non-toxic**

Description: Small gas cylinders worn for the operation of mechanical limbs. Also spare cylinders of a similar size if required to ensure an adequate supply for the duration of the journey.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	No

Forbidden: Gas cylinders for the preparation of soda water or similar products.

**Hair curlers**

Description: Hair curlers containing hydrocarbon gas.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	No

Rules:

- Only one set of hair curlers per passenger
- Hair curlers must not be used on board at any time
- The safety cover must be securely fitted over the heating element.
- Gas refills for such curlers are not permitted in checked or carry-on baggage.

**Heat-producing articles**

Description: Heat producing articles, i.e. battery-operated equipment such as underwater torches/diving lamps and soldering equipment which, if accidentally activated, will generate extreme heat and can cause fire.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Rules:

- The device must be switched off.
- The heat producing component, or the energy source, must be removed and packed separately so as to prevent unintentional functioning during transport. If the battery has been removed, it has to be protected against short circuit.

**Medicinal or toilet articles (non radioactive), including aerosols**

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	No

Examples:

- Hair sprays
- Perfumes and colognes
- Medicines containing alcohol.

Rules:

- The total net quantity of all such articles carried by each passenger or crew member must not exceed 2 kg (4,4 lbs) or 2 litres (32 fluid ounces = 2 qt) per passenger in checked and cabin baggage together.
- The net quantity of each single article must not exceed 0,5 kg (1,1 lbs or 1 pt) or 0,5 litres (16 fluid ounces = 0,5 qt).

Reference: Please also see "Aerosols" above.

**Nitrogen**

Description: Insulated packaging containing refrigerated liquid

**(refrigerated liquid)**

nitrogen fully absorbed in a porous material and intended for transport, at low temperature ("dry shipper"), of non-dangerous products are not subject to the IATA dangerous goods regulations.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Rules:

- The design of the insulated packaging must not allow the build-up of pressure within the container
- The release of any refrigerated liquid nitrogen irrespective of the orientation of the insulated packaging must not be permitted

**Oxygen (gaseous)**

Description: Small gaseous oxygen cylinders or air cylinders for medical use.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	Yes

Notes:

- Maximum pressure: 200 bar and maximum gross weight 5 kg per cylinder.
- Cylinders may be used on board LH flights.
- Must be carried in a manufacturer approved outer packaging which protects the outlet valve.

Forbidden:

- Worldwide: chemical oxygen generators.
- To/from/via USA: gaseous oxygen cylinders.
- On flights operated by LH Regional aircraft.

**Pacemakers**

Description: Radio-isotopic cardiac pacemakers or other devices, including devices that are powered by lithium batteries implanted into a person, or radio-pharmaceuticals contained within the body of a person as a result of medical treatment.

Checked baggage:	No
Cabin baggage:	Yes (only on one's person/within the

body)  
 Approval of carrier required: No

**Portable electronic devices containing lithium**

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Description: Portable electronic devices containing lithium metal or lithium-ion cells or batteries, such as watches, calculating machines, cameras, cellular phones, laptop computers, camcorders, etc., when carried for personal use.

Checked baggage: Yes  
 Cabin baggage: Yes  
 Approval of carrier required: No

Rules for spare batteries:

- Spare lithium metal or lithium ion cells or batteries with a Watt-hour rating up to 100 Wh for such consumer electronic devices:
  - Allowed in cabin baggage only and in quantities for personal use only.
  - These batteries must be individually protected to prevent short circuits.
- Each installed or spare battery must not exceed
  - For lithium metal or lithium alloy batteries a lithium content of more than 2g, or
  - For lithium ion batteries a Watt-hour rating of more than 100Wh
- Spare lithium ion batteries with a Watt-hour rating exceeding 100 Wh up to 160 Wh for such consumer electronic devices:
  - Not more than two spare batteries per person
  - Allowed in cabin baggage only
  - These batteries must be individually protected to prevent short circuits.
  - Approval of the carrier is required.

**Portable medical electronic devices**

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Description: Portable medical electronic devices (e.g. Automated External Defibrillators AED, nebulizers, Continuous Positive Airway Pressure CPAP, etc) carried for medical use and containing lithium metal or lithium ion cells or batteries

Checked baggage: Yes  
 Cabin baggage: Yes  
 Approval of carrier required: Yes

Rules:

- Each installed or spare battery must be of a type that meets the requirements of the UN Manual of tests and Criteria, Part III, section 38.3.  
 The passenger must give this proof at reservation or check-in, e.g. by showing a certificate of the manufacturer, or by giving a written statement himself.
- Each installed or spare lithium metal battery must not have a lithium content of more than 8g.
- Each installed or spare lithium ion battery must not exceed a Watt-hour rating of 160 Wh.
- Only two spare batteries allowed per passenger.
- Spare batteries only allowed in cabin baggage.
- Each spare battery must be individually protected in order to prevent short circuits, e.g. by taking them in original retail packaging, or by otherwise insulating terminals.

**Portable oxygen concentrators**

Description: Portable oxygen concentrators powered by gel batteries for medical use, also for use on board.

Checked baggage: No  
 Cabin baggage: Yes  
 Approval of carrier required: Yes

Rule: The approval has to be requested via the LH Meda desk.

**Safety matches or lighter**

Description: Safety matches or a cigarette lighter which does not contain unabsorbed liquid fuel, other than liquefied gas, intended for use by an individual when carried on the person.

Checked baggage: No  
 Cabin baggage: Yes (**only** on one's person)

Approval of carrier required: No

Forbidden:

- Lighter fuel
- Lighter refills
- "Strike-anywhere" matches
- "Blue flame" or "Cigar" lighters

Note: Some countries may not allow matches or any kind of lighters.

**Thermometers (medical or clinical)**

Description: Small medical or clinical thermometers for personal use containing mercury.

Checked baggage:	Yes
Cabin baggage:	Yes
Approval of carrier required:	No

Rules:

- The thermometer must be carried in a protective case.
- Only one per passenger is allowed.

**The list of prohibited articles is not final and can be added to at any time. Additional regulations may apply to certain flights. Furthermore national regulations, as well as the IATA dangerous goods regulations must be complied with. The airline can provide a copy of these regulations on request.**