



Dangerous goods that may be carried under certain conditions

Döküman No:	KL-09
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Sayfa No	1/15

(As at: 25.04.2017)

Baggage that falls into the 'dangerous goods' category can still be carried under certain circumstances. Such dangerous items are dealt with in this section and are listed specifying the criteria that must be observed.

Please also note that the restrictions on liquids in carry-on baggage are relevant to the items shown too.

Aerosols	
Description	Rules
Aerosols for sporting or personal use. The contents must not be flammable or toxic. Checked baggage: yes Carry-on baggage: no Approval of carrier required: no	<ul style="list-style-type: none">Release valves on aerosols must be protected by a cap or other suitable means to prevent inadvertent release of contents.Per passenger, the total net quantity carried must not exceed 2 kg (4.4 lb) or 2 litres (2 qt) (aerosols and toiletries), and the net quantity per container must not exceed 0.5 kg (1 lb) or 0.5 litres (1 pt). <p>Note: please also see 'Medicinal and toilet articles' below.</p>

Alcoholic beverages	
Description	Rules
Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no	<ul style="list-style-type: none">In retail packaging, containing more than 24% but not more than 70% alcohol by volumeIn receptacles not exceeding 5 litres (90 fluid ounces = 5 qt)Total net quantity of 5 litres per passenger <p>Note: there is no restriction on alcoholic beverages containing 24% or less alcohol by volume; this is also the case for small barrels of beer (party kegs) as these are not under high pressure. Not included are pressurised barrels or bottles with carbon dioxide or similar gas as used in the catering trade.</p>



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Ammunition (cartridges for weapons)

Description	Rules
<p>Securely boxed ammunition (cartridges for weapons) for sporting purposes in Division 1.4S.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: yes</p>	<ul style="list-style-type: none">• Weapons and ammunition must be packed in different bags. If necessary, a special luggage box must be used to separate both items from each other. Weapons must be unloaded.• 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.• Quantities of ammunition not exceeding 5 kg (11 lb) gross weight per passenger (must be weighed) may be carried for that passenger's own use.• Ammunition must be securely packaged, i.e. in customary trade packaging. <p>Prohibited:</p> <ul style="list-style-type: none">• Ammunition with explosive or incendiary projectiles.• Black powder must never be transported.

Avalanche rescue backpacks

Description	Rules
<p>Contains a cartridge of compressed gas in Division 2.2 or is equipped with a pyrotechnic trigger mechanism containing less than 200 mg net explosive material of Division 1.4S.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">• Only one backpack is allowed per passenger.• The backpack may not be carried on the person.• The backpack must be packed in such a manner that it cannot be accidentally activated.• The airbag within the backpack must be fitted with pressure relief valves.• The gas cylinders shall only be accepted if they are integrated in the backpack. Spare cylinders or removed cylinders may not be carried.• The carriage of avalanche rescue backpacks on flights to/from/via the USA is completely forbidden.



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Barometers	
Description	Rules
Barometers containing mercury. Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes	<ul style="list-style-type: none">• Mercury barometers may only be carried by representatives of a government weather bureau or similar official agency.• The barometer must be packed in a strong outer container, having a sealed inner liner or a bag of strong, leak-proof and puncture-resistant material impervious to mercury, which will prevent the escape of mercury from the package irrespective of its position

Batteries non-spillable (dry, gel type)	
Description	Rules
Non-spillable batteries (dry, gel type) for wheelchairs and other battery-powered mobility devices. Checked baggage: yes Carry-on baggage: no Approval of carrier required: yes	<ul style="list-style-type: none">• 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.• Batteries designed to be removed (e.g. in collapsible devices):<ul style="list-style-type: none">○ The user has to remove the battery○ The battery has to be protected from short circuits by insulating the terminals (e.g. by taping over exposed terminals)○ The removed battery must be carried in strong packaging and will be transported in the cargo <p>hold.</p>



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Batteries non-spillable, lithium ion	
Description	Rules
<p>Non-spillable batteries (dry, gel type) for wheelchairs and other battery-powered mobility devices.</p> <p>Checked baggage: yes Carry-on baggage: no, except for removable batteries</p> <p>Approval of carrier required: yes</p>	<ul style="list-style-type: none">• The battery must be securely attached to the wheelchair or mobility device.• The battery terminals must be protected against short circuit, e.g. by being enclosed within a battery container.• Lithium ion batteries must meet the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3. Proof must be produced at the time of booking or check-in at the airport, e.g. by showing a manufacturer's certificate or by giving a personal written statement.• Removable batteries (e.g. in collapsible devices):<ul style="list-style-type: none">○ the user has to remove the battery○ the battery has to be protected from short circuits by insulating the terminals (e.g. by taping over exposed terminals)○ each battery must be packed in a protective container provided by the passenger○ the battery power must not exceed 300 Wh (Watt-hours).○ a maximum of one spare battery not exceeding 300 Wh or two spare batteries each not exceeding 160 Wh may be carried.• The battery must be carried as additional carry-on baggage.• The carriage of small, self-balancing electronic devices which are powered by lithium batteries (lithium-powered personal devices) is prohibited on board aircraft both in checked baggage and in carry-on baggage. This regulation applies irrespective of the battery power.



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Batteries spillable (wet)

Description	Rules
<p>Batteries used for wheelchairs and other mobility devices.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: yes</p>	<ul style="list-style-type: none">• 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 circuit, e.g. by being enclosed within a battery container.• The battery can only be accepted if it can be transported in an upright position. If this is not possible, the battery must be removed and the wheelchair can only be accepted without it. The battery then has to be shipped as cargo.

Camping stoves

Description	Rules
<p>Camping stoves and fuel containers that have contained a flammable liquid fuel.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: yes</p>	<ul style="list-style-type: none">• The fuel tank of the camping stove or the fuel container must be empty and completely drained of all liquid fuel and fumes.• The cap has to be securely fastened.• The fuel tank and/or container must be wrapped in absorbent material, such as paper towel, and placed in a polyethylene (or equivalent) bag. The top of the bag must then be sealed or gathered and closed with an elastic band or twine

Gas cartridges, non-flammable, non-toxic

Description	Rules
<p>Small gas cartridge containing carbon dioxide or other suitable gas in Division 2.2, e.g. for self-inflating life jacket, espuma bottles or for inflating tyres, plus up to two spare cartridges.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<p>For life jackets and similar safety devices:</p> <ul style="list-style-type: none">• maximum of one item per Passenger• must be packed in such a manner that it cannot be accidentally activated• limited to carbon dioxide/other suitable gas in Division 2.2 without a subsidiary risk• the cartridges must be for inflating the life-saving device• for other devices (apart from life jackets): not more than 4 cartridges up to 50 ml water capacity. <p>Note: In the case of carbon dioxide, a gas cartridge with a water capacity of 50 ml is equivalent to a 28 g cartridge.</p>



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Chemical agent monitoring equipment

Description	Rules
<p>When carried by staff members of the Organization for the Prohibition of Chemical Weapons (OPCW) travelling on official business.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	

Fuel cell systems and spare fuel cartridges

Description	Rules
<p>Fuel cell systems and spare fuel cartridges powering portable electronic devices such as cameras, mobile/cell phones, laptop computers and camcorders. The devices must be securely packed. Lithium batteries are not permitted.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	<ul style="list-style-type: none">• Maximum of 2 per passenger are allowed.• Fuel cell systems must be durably marked by the manufacturer with "Approved for carriage in aircraft cabin only", and with the manufacturer's certification that the system conforms to the specifications of IEC PAS 62282-6-1 Ed. 1.• The fuel cells must not recharge the electronic device if the device is not in use.• Each fuel cell cartridge must be marked with the manufacturer's certification that it conforms to the specifications of IEC PAS 62282-6-1 Ed.1, and with the maximum quantity and type of the cartridge.• Fuel cells may only contain flammable liquids, corrosive substances, liquefied gases, water-reactive substances or hydrogen in metal hydride.• Maximum quantities for each fuel cell cartridge are:<ul style="list-style-type: none">- 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 for the insertion of a spare cartridge.



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Dry ice (carbon dioxide, solid)

Description	Rules
<p>Solid dry ice (carbon dioxide) when used to pack perishables is not subject to these regulations.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">• Max. 2.5 kg (5 lbs) per passenger.• The packaging must permit the release of carbon dioxide gas.• Each checked bag containing dry ice must be labelled with the additional tag 'Dry Ice'. <p>Note: passengers using this exemption are limited to a maximum of 2.5 kg in carry-on and checked baggage combined.</p>

Gas cylinders, non-flammable, non-toxic

Description	Rules
<p>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.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	<p>Prohibited: Gas cylinders for the preparation of soda water or similar products</p>

Hair curlers

Description	Rules
<p>Hair curlers containing hydrocarbon gas.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	<ul style="list-style-type: none">• 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. <p>Gas refills for such hair curlers are not permitted in either checked or carry-on baggage.</p>



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Heat-producing articles	
Description	Rules
<p>Heat-producing articles, i.e. battery-operated equipment such as underwater torches/diving lamps and soldering irons which, if accidentally activated, will generate extreme heat and can cause a fire.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">• 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 must be protected against short circuit.• If the device is operated with a lithium battery, the requirements and restrictions for this type of battery must be adhered to.

Lithium battery	
Description	Rules
<p>If the device is operated with a lithium battery, the requirements and restrictions for this type of battery must be adhered to.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	

Medicinal or toilet articles (non-radioactive), including aerosols	
Description	Rules
<ul style="list-style-type: none">• Hair sprays• Perfumes and colognes• Medicines containing alcohol	<ul style="list-style-type: none">• The total net quantity of all such items which are carried by a passenger shall not exceed 2 kg or 2 litres per person in checked baggage and in carryon 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). <p>Note: Please also see 'Aerosols' above.</p>



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Nitrogen (refrigerated liquid)

Description	Rules
<p>Insulated packaging which contains refrigerated liquid nitrogen fully absorbed in a porous material and which is intended for transport at low temperature ('dry shipper') and used for non-dangerous products that are not subject to the IATA Dangerous Goods Regulations.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	<ul style="list-style-type: none">• 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, is not permitted.

Oxygen (gaseous)

Description	Rules
<p>Small gaseous oxygen cylinders or air cylinders for medical use.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">• Maximum pressure 200 bar and maximum gross weight 5 kg per cylinder.• Cylinders may be used on board Lufthansa flights.• They must be carried in manufacturer-approved outer packaging that protects the outlet valve. <p>Prohibited:</p> <ul style="list-style-type: none">• Worldwide: chemical oxygen generators• On flights to/from/via USA: gaseous oxygen cylinders• On flights operated by Lufthansa Regional• Personal oxygen canisters (canned / recreational / flavored oxygen)



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Pacemakers	
Description	Rules
<p>Radioisotopic cardiac pacemakers or other devices, including those powered by lithium batteries, implanted into a person or radiopharmaceuticals contained within the body of a person as a result of medical treatment.</p> <p>Checked baggage: no Carry-on baggage: yes (only on the person/in the body) Approval of carrier required: no</p>	

Permeation devices	
Description	Rules
<p>Permeation devices for calibrating air quality monitoring equipment.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: no</p>	



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Portable electronic devices containing lithium

Description	Rules
<p>Portable electronic devices containing lithium metal or lithium ion cells or batteries, such as watches, pocket calculators, cameras, mobile/cell phones, laptop computers, camcorders, etc., when carried for personal use.</p> <p>Checked baggage: up to 100 Wh or 2 g yes 100-160 Wh or 2-8 g no Carry-on baggage: yes Approval of carrier required: up to 100 Wh or 2 g no 100-160 Wh or 2-8 g yes</p>	<ul style="list-style-type: none">Batteries must meet the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3. <p>Rules for spare batteries:</p> <ul style="list-style-type: none">Spare lithium metal or lithium ion cells or batteries with a Watt-hour rating of up to 100 Wh for such consumer electronic devices:<ul style="list-style-type: none">allowed in carry-on baggage only and in quantities for personal use onlythese batteries must be individually protected to prevent short circuits.No installed or spare battery may exceed the following values:<ul style="list-style-type: none">for lithium metal or lithium alloy batteries a lithium content of 2 g, or a Watt-hour rating of 100 Wh for lithium ion batteries.Spare lithium ion batteries for the stated electronic consumer goods with a Watt-hour rating of between 100 and 160 Wh:<ul style="list-style-type: none">no more than two spare batteries per persononly permitted in carry-on baggagecarrier's approval required. <p>Note:</p> <ul style="list-style-type: none">E-cigarettes or other personal vaporizers containing lithium batteries are only permitted in carry-on baggage.Items that are used as power sources, such as powerbanks, are considered as spare batteries.Samsung Galaxy Note 7 smartphones. The smartphone may not be carried on board either in carry-on baggage or checked baggage. There are no storage facilities available at airports.



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Portable electronic devices containing non-spillable batteries

Description	Rules
<p>Portable electronic devices containing non-spillable batteries (except lithium batteries).</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	<ul style="list-style-type: none">Batteries must not contain any free or unabsorbed liquid.Batteries must be 12 V or less, and 100 Wh or less.Batteries must be protected from activation, or disconnected and the battery terminals insulated.Up to 2 spare batteries may also be carried. <p>Spare batteries must be protected against short circuits by insulating the terminals and may only be transported in carry-on baggage.</p>

Portable medical electronic devices

Description	Rules
<p>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.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">Each installed or spare battery must be of a type that meets the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3.Each installed or spare battery must not have a lithium content of more than 8 g.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 must not exceed a lithium content of more than 2 g or a Watt-hour rating of 100 Wh.Spare batteries may only be carried in carry-on baggage.Each spare battery must be individually protected against short circuit, e.g. by being transported in the original packaging or by otherwise insulating the terminals.



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Portable oxygen concentrators

Description	Rules
<p>Portable, battery-powered oxygen concentrators for medical use, also for use on board.</p> <p>Checked baggage: no Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">• Approval is to be obtained via the Lufthansa Medical Service.• For portable oxygen concentrators powered by lithium batteries the rules for lithium batteries apply in general (see above).

Safety matches or lighters

Description	Rules
<p>Safety matches or lighters which do not contain unabsorbed liquid fuel other than liquefied gas, intended for personal use.</p> <p>Checked baggage: no Carry-on baggage: no On the person: yes Approval of carrier required: no</p>	<p>Prohibited:</p> <ul style="list-style-type: none">• Lighter fuel• Lighter refills• 'Strike anywhere' matches• Blue flame or cigar lighters <p>Note: No more than one small packet of safety matches or one lighter per person. In some countries matches or lighters of any kind are forbidden.</p>

Specimens, non-infectious, packed with small quantities of flammable liquids

Description	Rules
<p>Non-infectious specimens packed with small quantities of flammable liquids, e.g. specimens of mammals, birds, amphibians, reptiles, fish, insects and other invertebrates, placed in a strong outer packaging with suitable cushioning material.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	



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Thermometers (medical or clinical)

Description	Rules
<p>Small medical or clinical thermometers for personal use containing mercury.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: no</p>	<ul style="list-style-type: none">The thermometer must be carried in a protective case.Only one per passenger is allowed.

Thermometer (meteorological)

Description	Rules
<p>Thermometer containing mercury.</p> <p>Checked baggage: no Carry-on baggage: yes Approval of carrier required: yes</p>	<ul style="list-style-type: none">Mercury thermometers may only be carried by representatives of a government weather bureau or similar official agency.The thermometer must be packed in a strong outer packaging, having a sealed inner liner or a bag of strong leak-proof and puncture resistant material impervious to mercury, which will prevent the escape of mercury from the package irrespective of its position.

Diving/snorkelling equipment

Description	Rules
<p>Diving/snorkelling equipment can contain hazardous material, e.g. in oxygen tanks or underwater torches.</p> <p>Checked baggage: yes Carry-on baggage: no Approval of carrier required: no</p>	<ul style="list-style-type: none">Oxygen tanks must be empty, with the valves open.For devices powered by lithium batteries: the requirements and restrictions for this type of battery must be complied with.



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Electronic cigarettes (e-cigarettes)

Description	Rules
<p>E-cigarettes and similar personal vaporizers (e-cigars, e-pipes, etc.) that are powered by lithium batteries.</p> <p>Checked baggage: no Carry-on baggage: yes Approval of carrier required: no</p>	<ul style="list-style-type: none">• Each item must be protected and packed in such a way as to prevent accidental activation.• The item must be stowed during the entire flight. <p>Prohibited:</p> <ul style="list-style-type: none">• Use on board• Recharging on board

Energy efficient lamps

Description	Rules
<p>Energy efficient lamps when in retail packaging intended for personal or home use.</p> <p>Checked baggage: yes Carry-on baggage: yes Approval of carrier required: no</p>	

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.