

# PROVISIONS OF DANGEROUS GOODS

Table 3-1 Thai AirAsia Provision for Dangerous Goods Carried by Passengers or Crew

The pilot-in-command must be informed of the location				
Permitted in or as carry-on baggage				
Permitted in or as checked baggage				
The approval of the operator is required				
1. <b>Alcoholic beverages</b> , when in retail packagings, containing more than 24% but not more than 70% alcohol by volume, in receptacles not exceeding 5 L, with a total net quantity per person of 5 L. <b>Note1 : Alcoholic beverages containing 24% or less alcohol by volume are not subject to any restrictions.</b> <b>Note2 : Must not exceed the local airport / customs restrictions.</b> <b>Note3 : Thai AirAsia NOT accepts alcoholic beverages in checked baggage unless it have been protected from damage or leakage (e.g. by placing absorbance material and covering with cushioning material.)</b>	×	✓	✓	×
2. <b>Ammunition, securely packaged</b> (in Div. 1.4S, UN0012 or UN0014 only) in quantities not exceeding 5 kg gross weight per person for that person's own use. Allowances for more than one person must not be combined into one or more packages.	✓	✓	×	×
3. <b>Avalanche rescue backpack</b> , one (1) per person, containing a cartridge of compressed gas in Div. 2.2. May also be equipped with a pyrotechnic trigger mechanism containing no more than 200 mg net of Div. 1.4S. The backpack must be packed in such a manner that it cannot be accidentally activated. The airbags within the backpacks must be fitted with pressure relief valves.	×			
4. <b>Baggage with installed lithium batteries</b> , non-removable batteries exceeding - 0.3 g for lithium metal or exceeding - 2.7Wh for lithium ion.	FORBIDDEN			
5. <b>Baggage with installed lithium batteries:</b> - non-removable batteries, batteries must contain no more than 0.3 g for lithium metal or for lithium ion must not exceed 2.7Wh; - removable batteries, batteries must be removed and carried in the cabin. The baggage without battery may carried in the cabin or loaded as check baggage. <b>Note1 : Restriction of the removed battery(ies) see "Batteries, spare/loose"</b>	×	✓	✓	×
6. <b>Batteries, dry batteries</b> (alkaline, nickel metal hydride, nickel cadmium, etc.) in the most common sizes : AA, AAA, C, D, button cell, 9-volt, etc., the quantity is not limited. The batteries must be separated in a plastic bag or protective pouch and the terminal must be covered with tape.	×	✓	✓	×
7. <b>Batteries, spare/loose</b> , including lithium batteries, non-spillable batteries, nickel-metal hydride batteries and dry batteries for portable electronic devices must be carried in carry-on baggage only. For lithium metal batteries, the lithium metal content must not exceed 2 g. For lithium ion batteries, the Watt-hour rating must not exceed 100Wh. Articles which have the primary purpose as a power source, e.g. power banks are considered as spare batteries. These batteries must be individually protected to prevent short circuits, the terminals must not contact with other metal. Each person is limited to a maximum of 20 spare batteries. <b>Note1 : Thai AirAsia NOT accepts any spare battery not indicating the Wh-rating on the package or damaged batteries.</b> <b>Note2 : The limitation is rely on the operator's approval</b> <b>Note3 : Wh = Ah x V</b>	×	×	✓	×
8. <b>Camping stoves and fuel containers that have contained a flammable liquid fuel</b> <b>Note1 : Fuel tank or fuel container is NOT allowed on Thai AirAsia flight</b>	✓	✓	×	×
9. <b>Chemical Agent Monitoring Equipment</b> , when carried by staff members of the Organization for the Prohibition of Chemical Weapons on official travel.	×			
10. <b>Disabling devices</b> such as mace, pepper spray, etc. containing an irritant or incapacitating substance are forbidden on the person, in checked and carry-on baggage.	FORBIDDEN			
11. <b>Dry ice (carbon dioxide, solid)</b> , in quantities not exceeding 2.5 kg (5.5 lbs) per person when used to pack perishables not subject to these Regulations in checked or carry-on baggage, provided the baggage (package) permits the release of carbon dioxide gas. Checked baggage must be marked "dry ice" or "carbon dioxide, solid" and with the net weight of dry ice or an indication that there is 2.5 kg (5.5 lbs) or less dry ice.	✓	✓	✓	×
12. <b>E-cigarettes</b> (including e-cigars, e-pipes, vaping devices, other personal vaporizers) containing batteries must be individually protected to prevent accidental activation. <b>Note1 : NOT allow to use or charge onboard the aircraft at any time</b>	×	×	✓	×
13. <b>Electro shock weapons</b> (e.g. Tasers, E-Mosquito/electronic mosquito racquet) containing dangerous goods such as explosives, compressed gases, lithium batteries, etc. are forbidden in carry-on baggage or checked baggage or on the person.	FORBIDDEN			
14. <b>Fuel cells and fuel cartridges powering portable electronic devices</b> (e.g. cameras cellular phones, laptop computers and camcorders), including for fuel cell cartridge, spare for portable electronic device, see under the following conditions: (a) fuel cells and fuel cell cartridges may only contain flammable liquids, corrosive substances, liquefied flammable gas, water-reactive substances or hydrogen in metal hydride; (b) refueling of fuel cells on board and aircraft is not permitted except that the installation of a spare cartridge is allowed; (c) the maximum quantity of fuel in any fuel cell or fuel cell cartridge must not exceed: (1) for liquids, 200 mL; (2) for solids 200 g; (3) for liquefied gases, 120 mL for non-metallic fuel cells of fuel cell cartridges or 200 mL for metal fuel cells or fuel cell cartridges; (4) for hydrogen in metal hydride the fuel cell cartridges must have a water capacity of 120 mL or less.	×	×	✓	×

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(d) each fuel cell and each fuel cell cartridge must conform to IEC 62282-6-100 Ed. 1, including Amendment 1 and must be marked with a manufacturer's certification that it conforms to the specification. In addition, each fuel cell cartridge must be marked with the maximum quantity and type of fuel in the cartridge; (e) no more than two spare fuel cell cartridges may be carried in carry-on baggage, or on the person; (f) fuel cells containing fuel are permitted in carry-on baggage only; (g) interaction between fuel cells and integrated batteries in a device must conform to IEC 62282-6-100 Ed. 1, including Amendment 1. Fuel cells whose sole function is to charge a battery in the devices are not permitted; (h) fuel cells must be of a type that will not charge batteries when the portable electronic is not in use and must be durably marked by the manufacturer "APPROVED FOR CARRIAGE IN AIRCRAFT CABIN ONLY" to so indicate; and (i) in addition to the languages which may be required by the State of Origin for the marks specified above. English should be used.				
15. Gas cartridges, small, non-flammable containing carbon dioxide or other suitable gas in Division 2.2. Up to two (2) small cartridges fitted into a self-inflating personal safety device, intended to be worn by a person such as a life jacket or vest. Not more than two (2) devices per passenger and up to two (2) spare small cartridges per device, not more than four (4) cartridges for other devices, the cartridge's capacity up to 50 mL of water capacity or 28 g. Cartridge (s) must be for inflation purposes. The personal safety device must be packed in such a manner that it can not be accidentally activated.	✓	✓	✓	✗
16. Gas cylinders, non-flammable, non-toxic 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.	✗	✓	✓	✗
17. Hair styling equipment containing a hydrocarbon gas cartridge, up to one (1) per passenger or crew-member, provided that the safety cover is securely fitted over the heating element. This hair styling equipment must not be used on board the aircraft. Spare gas cartridges for such hair styling equipment are not permitted in checked or carry-on baggage. <b>Note1 : NOT allow to use onboard the aircraft at any time</b>	✗	✓	✓	✗
18. Insulated packagings containing refrigerated liquid nitrogen (dry shipper), fully absorbed in a porous material containing only non-dangerous goods.	✓	✓	✓	✗
19. Internal combustion or fuel cell engines			✗	
20. Lithium Batteries: Security-type equipment containing lithium batteries			✗	
21. Lithium Batteries: Portable electronic devices (PED) containing lithium metal or lithium ion cells or batteries, including medical devices such as portable oxygen concentrators (POC) and consumer electronics such as cameras, mobile phones, laptops and tablets, when carried by passengers or crew for personal use, which should be carried in carry-on baggage. For lithium metal batteries, the lithium metal content must not exceed 2g and For lithium ion batteries, the Watt-hour rating must not exceed 100Wh. Devices in checked baggage must be completely switched off and must be protected from damage. Each person is limited to a maximum of 15 PED. <b>Note1 : The limitation is rely on the operator's approval</b> <b>Note2 : Wh = Ah x V</b>	✗	✓	✓	✗
22. Lithium batteries, spare/loose with a Watt-hour rating exceeding 100Wh but not exceeding 160Wh for consumer electronic devices and PMED or with a lithium metal content exceeding 2 g but not exceeding 8 g for PMED only. Maximum of 2 (Two) spare batteries in carry-on baggage only. These batteries must be individually protected to prevent short circuits. <b>Note1 : Thai AirAsia NOT accept any spare battery not indicating the Wh-rating on the package</b> <b>Note2 : Power Bank over 160Wh (32000mAh) is forbidden</b> <b>Note3 : Wh = Ah x V</b>	✓	✗	✓	✗
23. Lithium battery-powered electronic devices. Lithium ion batteries for portable (including medical) electronic devices, a Wh rating exceeding 100 Wh but not exceeding 160 Wh. For portable medical electronic devices only, lithium metal batteries with a lithium metal content exceeding 2 g but not exceeding 8 g. Devices in checked baggage must be completely switched off and must be protected from damage. <b>Note1 : Wh = Ah x V</b>	✓	✓	✓	✗
24. Matches, safety (one small packet) or a small cigarette lighter (Zippo type lighter) that does not contain unabsorbed liquid fuel, other than liquefied gas, intended for use by an individual when carried on the person. Lighter fuel and lighter refills are not permitted on one's person or in checked or carry-on baggage. <b>Note1 : "Strike anywhere" matches, "Blue flame" or "Cigar" lighters are forbidden or lighters powered by a lithium battery without a safety cap or means of protection against unintentional activation are forbidden.</b> <b>Note2 : These are subject to the regulation of each airports</b>	✗		ON ONE'S PERSON	✗
25. Mobility Aids : Battery-powered wheelchairs or other similar mobility devices with non-spillable wet batteries, nickel-metal hydride batteries or dry batteries. <b>Note1 : A passenger may carry one (1) spare wet, non-spillable battery meeting Special Provision A67 or two (2) spare nickel-metal hydride batteries meeting Special Provision A199 or dry batteries meetings Special Provision A123.</b>	✓	✓	✗	✓
26. Mobility Aids : Battery-powered wheelchairs or other similar mobility devices with spillable batteries or lithium ion batteries (non-removable). <b>Note1 : Non-removable lithium ion battery is limited to 1 pc per flight.</b>	✓	✓	✗	✓
27. Mobility Aids : Battery-powered wheelchairs or other similar mobility devices with lithium ion batteries where the design of the mobility aid does not provided adequate protection for the battery(ies), the battery must be removed and carried in the cabin. <b>Note1 : For the removed Lithium ion battery(ies) (The battery(ies) must be removed by user) are as follows;</b> - 1 pc, for Wh-rating exceeding 160Wh but not exceeding 300Wh; or - 2 pcs for Wh-rating not exceeding 160Wh. <b>Note2 : For spare Lithium ion battery(ies) are as follows;</b> - 1 pc, for Wh-rating exceeding 160Wh but not exceeding 300Wh; or - 2 pcs for Wh-rating not exceeding 160Wh.	✓	✗	✓	✓

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<p>Note3 : Electrical circuits must be inhibited by the user at check in counter.            Note4 : Thai AirAsia allowed mobility aids unlimited removable Lithium-ion battery.            Note5 : If the battery is found to be broken, cracked, completely drained out, immediately stop the process of loading the wheelchair.            Note6 : The removed or spare battery(ies) must be protected from damage (e.g. by placing each battery in a protective pouch).            Note7 : For all kinds Mobility Aid with Batteries, passenger must contact Thai Asia at least 48 hours prior to flight departure.</p>				
28. Non-radioactive medicinal or toiletry articles (including aerosols) such as hair sprays, mosquito repellent, insect repellent, rubbing alcohol, inhalers, nail polish and remover, perfumes, colognes and medicines containing alcohol; and Non-flammable, non toxic (Division 2.2) aerosols, with no subsidiary hazard, for sporting or home use. The total net quantity of non-radioactive medicinal or toiletry articles and non-flammable, non-toxic (Division 2.2) aerosols must not exceed 2 kg or 2 L and the net quantity of each single article must not exceed 0.5 kg or 0.5 L. Release valves on aerosols must be protected by a cap or other suitable means to prevent inadvertent release of the contents.	✗	✓	✓	✗
29. Oxygen or air, gaseous, cylinders for medical use. Note1 : Liquid oxygen systems, canned oxygen, recreational oxygen and flavored oxygen are forbidden for transport.	✗			
30. Permeation devices	✗			
31. Portable electronic devices containing non-spillable batteries with a maximum of 2 spare batteries may be carried. Battery and outer packaging must be marked "non-spillable" or "non-spillable battery". The battery must not contain any free or unabsorbed liquid. Any electrical battery or battery powered device, equipment or vehicle having the potential of dangerous evolution of heat must be prepared for transport so as to prevent: The following requirements apply, (a) a short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals); and (b) unintentional activation (c) battery must be 12V or less and 100Wh or less.	✓	✓	✗	✗
32. Radioisotopic cardiac pacemakers or other devices, including those powered by lithium batteries and radiopharmaceuticals that have been ingested, injected, or implanted into a person or fitted externally.	✗	ON ONE'S PERSON	✗	✗
33. Recalled batteries and devices: Lithium batteries or battery-powered devices recalled by the manufacturer/vendor must not be carried aboard aircraft or packed in baggage, unless the device or its battery has been certificated after replaced, repaired or otherwise made safe per manufacturer/vendor instructions.	✗			
34. Security-type attaché cases, cash boxes, cash bags, etc. incorporating dangerous goods, such as lithium batteries and/or pyrotechnic material.	FORBIDDEN			
35. Specimens, non-infectious packed with small quantities of flammable liquid, must meet A180.	✓	✓	✓	✗
36. Thermometer, medical or clinical, which contains mercury (Silver line), one (1) per person for personal use, when in its protective case. Note1 : Thermometers with a red line or Digital thermometers are not restricted.	✗	✓	✗	✗
37. Thermometer or barometer, mercury filled carried by a representative of a government weather bureau or similar official agency (a) must be packed in a strong outer packaging. (b) a sealed inner liner or a bag of strong leak-proof and puncture-resistant material to prevent the escape of mercury from the package.	✓	✗	✓	✓

**NOTE1 : Special Provision Related with Table 3-1**

A67 Wet cell batteries can be considered as non-spillable batteries provided that they are capable of withstanding the vibration test and pressure differential tests without leaking of battery fluid (refer to the latest edition of IATA DGR Special Provision A67), non-spillable batteries are not subjected to these regulations when carried as cargo. If at temperature 55°C, the electrolyte will not flow from a ruptured or cracked case. The battery must not contain any free or unabsorbed liquids, not ruptured or cracked. The device and battery must be disconnected and prevent from short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) and unintentional activation.

A123 Dry batteries such as alkali-manganese, zinc-carbon and nickel cadmium (Ni-Cd) batteries, the device and battery must be disconnected and prevent from short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) and unintentional activation.

A199 Nickel-metal hydride (Ni-MH) batteries or nickel-metal hydride (Ni-MH) battery-powered devices, equipment or vehicles, the device and battery must be disconnected and prevent from short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) and unintentional activation.

A180 Specimens, non-infectious packed with small quantities of flammable liquids. Non-infectious specimens, such as specimens of mammals, birds, amphibians, reptiles, fish, insects and other invertebrates containing small quantities of flammable liquids provided that the requirements of Special Provision A180 are complied with:

- Specimens are:
  - wrapped in paper towel and/or cheesecloth moistened with alcohol, an alcohol solution or a formaldehyde solution and then placed in a plastic bag that is heat-sealed. Any free liquid in the bag must not exceed 30 mL; or
  - placed in vials or other rigid containers with no more than 30 mL of alcohol, an alcohol solution or a formaldehyde solution;
- The prepared specimens are then placed in a plastic bag that is then heat-sealed;
- The bagged specimens are then placed inside another plastic bag with absorbent material then heat sealed;
- The finished bag is then placed in a strong outer packaging with suitable cushioning material;
- The total quantity of flammable liquid per outer packaging must not exceed 1 L; and
- The completed package is marked "scientific research specimens, not restricted Special Provision A180 applies".

**NOTE2 : Applicable for Thai AirAsia Staff only**

Refer GOM Chapter 35 Part D for handling of lithium battery; and

Refer GOM Chapter 37 Part D for handling of battery-powered wheelchairs or other mobility devices.