

Comparison of Category A, B, and Dry Ice Packing

Category A Packing Instruction 620	Category B Packing Instruction 650
Packaging	
1. Leak proof primary receptacle(s). Maximum volume 50ml (50g solid).	Leak proof primary receptacle(s). Maximum volume 1Liter (4 Kg solid).
2. Leak proof secondary container that satisfies 95kPa pressure test (in the range of -40°C to 55° C). Maximum total - 50ml (50g solid). For cargo aircraft the package may contain up to 4 liters in total.	Leak proof secondary container that satisfies 95kPa pressure test(in the range of -40°C to 55° C). Maximum volume 4 Liters in total (4Kg solid).
3. Absorbent material between primary receptacle(s) and secondary container (not required for solid samples). Must be sufficient to absorb contents of all primary receptacles. Primary receptacles must be individually wrapped or separated to prevent contact between them.	Absorbent material between primary receptacle(s) and secondary container (not required for solid samples). Must be sufficient to absorb contents of all primary receptacles. Primary receptacles must be individually wrapped or separated to prevent contact between them.
4. Rigid outer packaging. UN certified and marked as such.	Rigid outer packaging of adequate strength for its capacity, weight and intended use. Must be capable of passing 1.2 m drop test.
5. Itemized list of contents to be enclosed between secondary container and outer packaging.	Itemized list of contents to be enclosed between secondary container and outer packaging.
6. Packages consigned as freight must be at least 100mm in the smallest dimension (4 inches).	Packages consigned as freight must be at least 100mm in the smallest dimension (4 inches).

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Marks and Labels	
7. Consignor and consignee name and addresses.	
8. Infectious Substance, affecting humans (UN 2814) or affecting animals (UN2900)	
9. Proper Shipping Name	
10. UN specification markings	
11. Name and telephone number (24hr) of person responsible for the shipment	Name, address, and telephone number of a responsible person.
12. Hazard diamond: <div style="text-align: center; margin-top: 10px;">  </div>	Hazard diamond: <div style="text-align: center; margin-top: 10px;">  </div> Plus: 'BIOLOGICAL SUBSTANCE, CATEGORY B'

You should never mix and match, or substitute any “pieces” to any part of your package system!



IATA PACKING INSTRUCTION 954 (For packages with Dry Ice)

STATE VARIATIONS: USG-13

OPERATOR VARIATIONS: HP-02, IC-08, VN-11

This instruction applies to UN 1845 on passenger and cargo aircraft and CAO.

The General Packing Requirements of 5.0.2 must be met.

Carbon Dioxide, solid (Dry Ice), when offered for transport by air, must be in packaging designed and constructed to permit the release of carbon dioxide gas and to prevent a build-up of pressure that could rupture the packaging.

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Arrangements between shipper and operator(s) must be made for each shipment, to ensure ventilation safety procedures are followed.

The Shipper's Declaration requirements of Subsections 8.1 and 10.8.1 are only applicable when the Carbon Dioxide, solid (Dry Ice) is used as a refrigerant for dangerous goods that require a Shipper's Declaration.

When a Shipper's Declaration is not required, the following information, as required by 8.2.3 for the Carbon Dioxide, solid (Dry Ice), must be contained in the "Nature and Quantity of Goods" box on the air waybill"

- Proper shipping name (**Dry Ice** or **Carbon Dioxide, solid**)
- UN 1845
- The number of packages
- The net quantity of Dry Ice in each package

The new weight of the Carbon Dioxide, solid (Dry Ice) must be marked on the outside of the package.

- Refer to the relevant airline's loading procedures for Carbon Dioxide, solid (Dry Ice) limitations.
- For Air Waybill requirements, see 8.2.3. For loading instructions, see 9.3.12.
- For cooling purposes, an overpack may contain Carbon Dioxide, solid (Dry Ice), provided that the overpack meets the requirements of Packing Instruction 954.

IATA PACKING INSTRUCTION 959 (for GMO)

STATE VARIATIONS: USG-13

OPERATOR VARIATIONS: CO-08

The General Packing Requirements of Subsection 5.0.2 must also be met.

Genetically modified micro-organisms must be packed according to Packing Instruction 959, except that the packaging's need not be tested as provided in Subsection 6.5.

The maximum quantity in a primary receptacle must not exceed 100 mL or 100g.