

International Standards for Fruit and Vegetables: Passion fruits

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1. DEFINITION OF PRODUCE

This Standard applies to commercial varieties of passion fruit from the species golden passion fruit/ sweet granadilla (*Passiflora ligularis* Juss), Purple Passion fruit (*Passiflora edulis* Sims forma *edulis*), Yellow Passion fruit (*Passiflora edulis* Sims forma *flavicarpa*) and their hybrids grown from the Passifloraceae family, to be supplied fresh to the consumer after preparation and packaging. Passion fruits for industrial processing are excluded.

The name 'passion fruit' includes various species of edible fruit of the genus *Passiflora*. They are distinguished by the type of fruit they bear, which have different size, color and taste.

1.1 Purple passion fruit or granadilla:

- Fruit Shape and size – the fruit has the shape and size of a round egg.
- Skin texture - hard and thick, and it wrinkles when ripe.
- Fruit color - color ranges from dark purple to violet.
- Pulp - orange or greenish color, a jelly texture having various edible seeds.
- Taste - It has a bittersweet taste;

1.2 Yellow passion fruit:

- Fruit Shape and size –
- Skin texture -
- Fruit color – Yellow
- Pulp -
- Taste -

1.3 Sweet Granadilla (*Passiflora ligularis*):

- Fruit Shape and size – the fruit is oval-shaped and pointed in one of its tips
- Skin texture -
- Fruit color –The skin is of yellowish or orange color
- Pulp - the pulp is of pale or grayish
- Taste - Sweet acidic

1.4 Giant granadilla: *Passiflora quadrangularis*...

- Fruit Shape and size – The fruit is a thick and elongated
- Skin texture - The skin is thick, with multiple protuberances
- Fruit color –
- Pulp -

- Taste - .

1.5 Cholupa, chulupa or gulupa: *Passiflora pinnatistipula*.

- Fruit Shape and size –
- Skin texture -
- Fruit color – The skin is of yellowish green or reddish-brown color
- Pulp - The pulp is yellowish, carrying many seeds.
- Taste - .

1.6 Banana passionfruit (*Passiflora mollissima*):

- Fruit Shape and size – it is an oval and lengthy fruit
- Skin texture -
- Fruit color – The skin is yellow or red according to the variety
- Pulp - The pulp is of yellow or orange color
- Taste - .

2 PROVISIONS CONCERNING QUALITY

2.1 Minimum requirements

In all classes, subject to the special provisions for each class and the tolerances allowed, the passion fruits must be:

2.1.1 Intact –

The fruit should not have any mutilation or injury spoiling its integrity such as cuts, punctures or other significant physical damage sustained during harvesting or post harvest handling. Missing stems are not regarded as a defect, provided the skin is not damaged.

2.1.2 Sound;

Passion fruits must be free from disease or serious deterioration which appreciably affects their appearance, edibility or market value.

Passion fruit showing the following defects are therefore excluded:

- a) Rotting or deterioration, even if the signs are very slight
- b) Woodiness virus
- c) Fungal infection
- d) Anthracnose disease

Produce affected by woodiness, rotting or deterioration such as to make it unfit for consumption is excluded

2.1.3 Clean;

Passion fruits must be practically free from soil, dust, chemical residue or other visible foreign matter.

2.1.4 Practically free from pests

Passion fruits must be practically free from insects or other pests. The presence of pests can detract from the commercial presentation and acceptance of the passion fruits. Pest damage can alter the general appearance, keeping quality and edibility of passion fruits.

2.1.5 Free from external Moisture

Free of abnormal external moisture excluding condensation following removal from cold storage; This provision applies to excessive moisture in the package however it does not include condensation on produce following release from cool storage or refrigerated vehicle.

Illustration number	Name of illustration

2.1.6 Fresh in appearance –

Free of signs of shriveling and dehydration. Doesn't include those fruits which shrivel upon maturity

Maturity

The passion fruits must have reached an appropriate degree of development and ripeness in accordance with criteria proper to the variety and to the area in which they are grown.

The development and condition of the passion fruits must be such as to enable them:

- To withstand transport and handling; and
- To arrive in satisfactory condition at the place of destination.

Illustration number
Photo
Photo

2.2 Classification

Passion fruits are classified into three classes defined below:

2.2.1 “Extra” Class

Passion fruits in this class must be of superior quality. They must be characteristic of the variety. They must be free of defects, with the exception of very slight superficial defects, provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package.

2.2.2 Class I

Passion fruits in this class must be of good quality. They must be characteristic of the variety. The following slight defects, however, may be allowed, provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package:

- A slight defect in shape;
- Slight defects of the skin such as scratches, not exceeding more than 10% of the total surface area of the fruit;
- Slight defects in coloring.

The defects must not, in any case, affect the flesh of the fruit.

2.2.3 Class II

This class includes passion fruits which do not qualify for inclusion in the higher classes, but satisfy the minimum requirements specified in Section above. The following defects, however, may be allowed, provided the passion fruits retain their essential characteristics as regards the quality, the keeping quality and presentation:

- Defects in shape including an extension in the zone of the stalk;
- Defects of the skin such as scratches or rough skin, not exceeding more than 20% of the total surface area of the fruit;
- Defects in coloring.

The defects must not, in any case, affect the flesh of the fruit.

Illustration number	Name of illustration

2.3 Provisions concerning sizing

Passion fruits may be sized by diameter, count or weight; or in accordance with pre-existing trading practices. When such is the case, the package must be labelled accordingly

Illustration number	Name of illustration
Photo	Sizing by count (illustrate using sales/transport package)
Photo	Grading by size

2.4 Provisions concerning tolerances

Tolerances in respect of quality and size shall be allowed in each package for produce not satisfying the requirements of the class indicated.

2.5 Quality tolerances in extra class

Five percent by number or weight of passion fruits not satisfying the requirements of the class, but meeting those of Class I or, exceptionally, coming within the tolerances of that class.

Illustration number	Name of illustration
Photo	Out of class

2.5.1 Quality tolerances in class I

Ten percent by number or weight of passion fruits not satisfying the requirements of the class, but meeting those of Class II or, exceptionally, coming within the tolerances of that class.

Illustration number	Name of illustration
Photo	
Photo	Out of class

2.5.2 Quality tolerances in class II

Ten percent by number or weight of passion fruits not satisfying the requirements of the class, but meeting those of Class II or, exceptionally, coming within the tolerances of that class.

Illustration number	Name of illustration

Photo	10% tolerance by number
Photo	Out of class

3 PROVISIONS CONCERNING PRESENTATION

3.1 Uniformity

The contents of each package must be uniform and contain only passion fruits of the same origin, variety, quality, color and size. The visible part of the contents of the package must be representative of the entire contents.

Illustration number (photos of packages)	Name of illustration
Photo	Uniform size

3.2 Packaging

Passion fruits must be packed in such a way as to protect the produce properly. The materials used inside the package must be new, clean, and of a quality such as to avoid causing any external or internal damage to the produce. The use of materials, particularly of paper or stamps bearing trade specifications is allowed, provided the printing or labelling has been done with non-toxic ink or glue.

For the purposes of this Standard, this includes recycled material of food-grade quality.

The national legislation of a number of countries requires the explicit declaration of the name and address. However, in the case where a code mark is used, the reference “packer and/or dispatcher (or equivalent abbreviations)” has to be indicated in close connection with the code mark.

Illustration number	Name of illustration
Photo	

3.3 Description of containers

The containers shall meet the quality, hygiene, ventilation and resistance characteristics to ensure suitable handling, shipping and preserving of the passion fruits. Packages must be free of all foreign matter and smell.

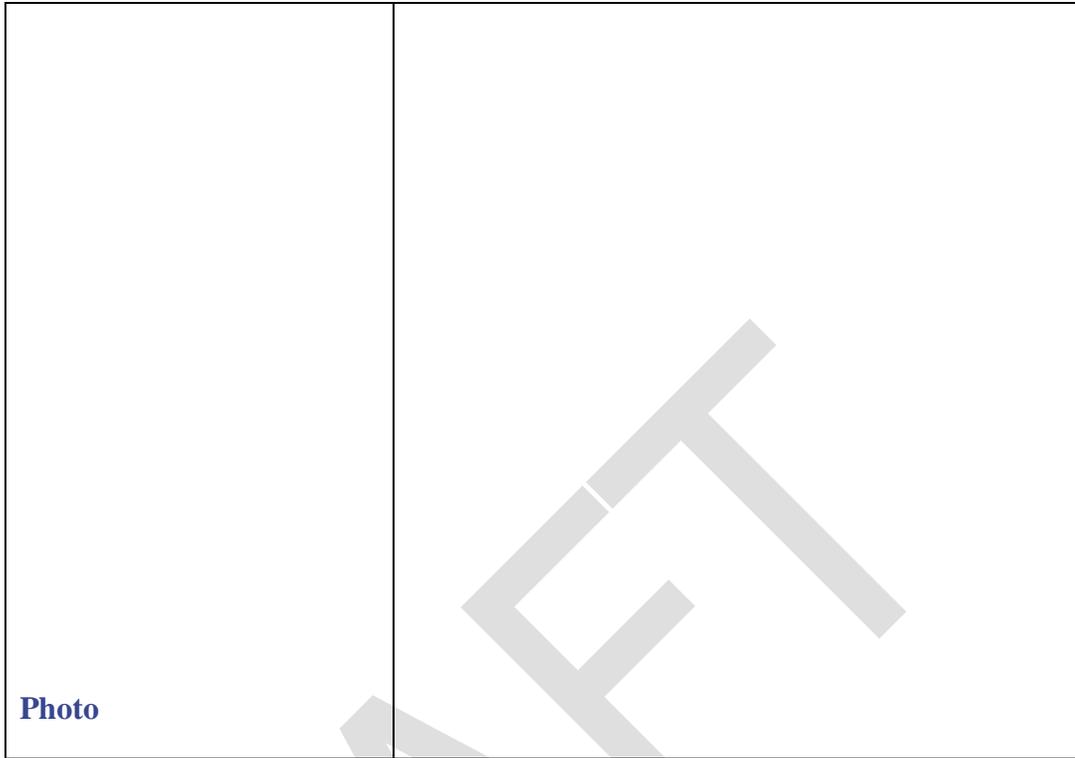
Illustration number	Name of illustration
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3.4 Marking or labelling

3.4.1 Consumer packages –

If the produce is not visible from the outside, each package shall be labelled as to the name of the produce: golden passion fruit /sweet granadilla, purple passion fruit, yellow passion fruit and may be labelled as to name of the variety.

Illustration number	Name of illustration
	Presentation of first class on consumer packet.



3.4.2 Non-retail containers

Each package must bear the following particulars, in letters grouped on the same side, legibly and indelibly marked, and visible from the outside, or in the documents accompanying the shipment.