

Unofficial Translation

*NOTIFICATION OF MINISTRY OF COMMERCE*

Subject: Standards of Thai Fragrant Rice

B.E. 2559

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Whereas it is expedient to prescribe standards of Thai Fragrant Rice for the benefit of having a variety of Thai rice for export, enhancing potentials of trade competition and rendering it reliable and acceptable in foreign market,

By virtue of the power in the provision under Article 4, first paragraph (2) of the Export Commodity Standards Act B.E. 2503 as amended by the Export Commodity Standards Act (second edition) B.E. 2522, the Minister of Commerce, with the advice of the Committee of Commodity Standards, hereby issues the Notification as follows:

Clause 1 This Notification is called “Notification of Ministry of Commerce, Subject: Standards of Thai Fragrant Rice”.

Clause 2 This notification shall come into force after the lapse of 60 days as from the date of its publication in the Government Gazette.

Clause 3 To annul the Notification of Ministry of Commerce, Subject: Standards of Pathumthani Fragrant Rice B.E. 2547 dated 4 October 2547.

Clause 4 To prescribe the standards of Thai Fragrant Rice according to the details appended to this notification.

Notified as on 30 September B.E. 2559

(Mrs. Apiradi Tantraporn)

Minister of Commerce

**Standards of Thai Fragrant Rice**

**Appended to Notification of Ministry of Commerce**

**Subject: Standards of Thai Fragrant Rice B.E. 2559**

Clause 1 Definitions

- (1) **Thai Fragrant Rice (Thai Jasmine Rice, Thai Aromatic Rice or any other names of the same meaning)** means Cargo rice and White rice that are processed from the non-glutinous rice paddy of fragrant varieties that are produced in Thailand and certified by Ministry of Agriculture and Co-operative as non-glutinous rice of fragrant varieties. They have natural aroma depending on whether they are new or old crop. The cooked rice of which has tender texture.
- (2) **Amylose** means one kind of starch existing in the rice kernels, and when cooked it makes the texture of the rice soft or hard varying according to the amylose content.
- (3) **Rice** means non-glutinous and glutinous rice (*Oryza Sativa* L.) in whatever form.
- (4) **Paddy** means rice that is not yet dehusked.
- (5) **Cargo rice (Loonzain rice, Brown rice, Husked rice)** means rice that is dehusked only.
- (6) **White rice** means rice that is obtained by removing the bran from cargo non-glutinous rice.
- (7) **Parts of rice kernel** means each part of the whole kernel that is divided lengthwise into 10 equal parts.
- (8) **Whole kernels** means rice kernels that are in whole condition without any broken part, and including the kernels that have the length as from 9 parts onward.
- (9) **Head rice** means fragments whose lengths are more than those of brokens but have not reached the length of the whole kernel. This includes split kernels that retain the area as from 80% of the whole kernel.
- (10) **Brokens** means fragments that have the length as from 2.5 parts but have not reached the length of Head rice. This includes split kernels that retain the area less than 80% of the whole kernel.
- (11) **Small brokens C1** means small fragments that pass through Sieve No. 7.
- (12) **Undermilled kernels** means milled rice kernels that have the milling degree below that specified for each grade of rice.

- (13) **Red kernels** means rice kernels that have red bran covering the kernels wholly or partly.
- (14) **Yellow kernels** means rice kernels that obviously turn yellow colour partly or wholly.
- (15) **Chalky kernels** means non-glutinous rice kernels that are opaque like chalk and have the area as from 50% of the area of the kernels.
- (16) **Damaged kernels** means rice kernels that are obviously damaged as can be seen by the naked eyes due to moisture, heat, fungi, insects or other.
- (17) **Undeveloped kernels** means rice kernels that do not develop normally as should be, and are flat.
- (18) **Immature kernels** means rice kernels that are light green, obtained from immature paddy.
- (19) **Other seeds** means seeds of other plants than rice kernels.
- (20) **Foreign matter** means other matter than rice. This includes rice husk and bran detached from rice kernels.
- (21) **Milling degree** means the degree to which the rice is milled. It is classified into 3 levels as follows:
- (21.1) **Extra well milled** means the removal of bran almost entirely to the extent that the rice kernel has a specially beautiful appearance.
- (21.2) **Well milled** means the removal of bran almost entirely to the extent that the rice kernel has a beautiful appearance.
- (21.2) **Reasonably well milled** means the removal of a large amount of bran to the extent that the rice kernel has a reasonably beautiful appearance.
- (22) **Sieve No. 7** means round hole metal sieve of which the thickness is 0.79 mm (0.031 inch) and the hole diameter is 1.75 mm (0.069 inch).
- (23) The unit “per cent” means percentage by weight.

**Clause 2** Thai Fragrant rice shall be divided into 2 types as follows:

- (1) **White rice**
- (2) **Cargo rice**

**Clause 3** Thai Fragrant rice of White rice type shall be divided into 6 grades as follows:

- (1) **White rice 100%**
- (2) **White rice 5%**
- (3) **White rice 10%**
- (4) **White rice 15%**
- (5) **White broken rice A1 Extra Super**
- (6) **White broken rice A1 Super**

**Clause 4** Thai Fragrant rice of Cargo rice type shall be divided into 4 grades as follows:

- (1) **Cargo rice 100%**
- (2) **Cargo rice 5%**
- (3) **Cargo rice 10%**
- (4) **Cargo rice 15%**

**Clause 5** Thai Fragrant rice of all types and grades shall have the following standards.

- (1) Purity at 80.0% minimum by quantity,
- (2) Moisture content not exceeding 14.00%,
- (3) General characteristics as a long grain rice
- (4) No living insects.
- (5) Kernel size as follows:
  - Average length of Whole kernels without broken parts not less than 7.0 mm.
  - Length/width ratio of Whole kernels without broken parts not less than 3.2:1
- (6) Chemical quality as follows:
  - Amylose content not more than 20.0% at the moisture level of 14.0%
  - Alkali spreading value at level 6 – 7

**Clause 6** The standards of Thai Fragrant Rice of the type and grades of White rice as per Clause 3 shall be specified as follows:

**(1) White rice 100%**

Shall have grain composition and milling degree as follows:

**Grain composition** comprises:

Whole kernels not less than 60.0%.

Brokens having the length as from 5.0 parts onwards but not reaching 8.0 parts not exceeding 4.5% Of this there may be brokens having the length not reaching 5.0 parts and not passing through sieve No. 7 not exceeding 0.5%, and Small white brokens C1 not exceeding 0.1% The rest shall be Head rice having the length as from 8.0 parts onwards.

**Rice and matters that may be present:**

Red kernels and or Undermilled kernels not exceeding 0.5%

Yellow kernels not exceeding 0.2%

Chalky kernels not exceeding 6.0%

Damaged kernels not exceeding 0.25%

Glutinous rice not exceeding 1.5%

Paddy not exceeding 5 grains per 1 kg rice

Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 0.2%

**Milling degree** Extra well milled

**(2) White rice 5%**

Shall have grain composition and milling degree as follows:

**Grain composition** comprises:

Whole kernels not less than 60.0%.

Brokens having the length as from 3.5 parts onwards but not reaching 7.5 parts not exceeding 7.0% Of this there may be brokens having the length not reaching 3.5 parts and not passing through sieve No. 7 not exceeding 0.5%, and Small white brokens C1 not exceeding 0.1% The rest shall be Head rice having the length as from 7.5 parts onwards.

**Rice and matters that may be present:**

Red kernels and or Undermilled kernels	not exceeding 2.0%
Yellow kernels	not exceeding 0.5%
Chalky kernels	not exceeding 6.0%
Damaged kernels	not exceeding 0.25%
Glutinous rice	not exceeding 1.5%
Paddy	not exceeding 8 grains per 1 kg rice
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined	not exceeding 0.3%
<b><u>Milling degree</u></b>	Well milled

**(3) White rice 10%**

Shall have grain composition and milling degree as follows:

**Grain composition** comprises:

Whole kernels not less than 55.0%.

Broken kernels having the length as from 3.5 parts onwards but not reaching 7.0 parts not exceeding 12.0% Of this there may be broken kernels having the length not reaching 3.5 parts and not passing through sieve No. 7 not exceeding 0.7%, and Small white broken kernels C1 not exceeding 0.3% The rest shall be Head rice having the length as from 7.0 parts onwards.

**Rice and matters that may be present:**

Red kernels and or Undermilled kernels	not exceeding 2.0%
Yellow kernels	not exceeding 1.0%
Chalky kernels	not exceeding 7.0%
Damaged kernels	not exceeding 0.5%
Glutinous rice	not exceeding 1.5%
Paddy	not exceeding 13 grains per 1 kg rice
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined	not exceeding 0.4%
<b><u>Milling degree</u></b>	Well milled

**(4) White rice 15%**

Shall have grain composition and milling degree as follows:

**Grain composition** comprises:

Whole kernels not less than 55.0%.

Brokens having the length as from 3.0 parts onwards but not reaching 6.5 parts not exceeding 17.0% Of this there may be brokens having the length not reaching 3.0 parts and not passing through sieve No. 7 not exceeding 2.0%, and Small white brokens C1 not exceeding 0.5% The rest shall be Head rice having the length as from 6.5 parts onwards.

**Rice and matters that may be present:**

Red kernels and or Undermilled kernels not exceeding 5.0%

Yellow kernels not exceeding 1.0%

Chalky kernels not exceeding 7.0%

Damaged kernels not exceeding 1.0%

Glutinous rice not exceeding 2.0%

Paddy not exceeding 13 grains per 1 kg rice

Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 0.4%

**Milling degree** Reasonably well milled

**(5) White broken rice A1 Extra Super**

Shall be rice obtained from the milling of White rice 100% and have grain composition as follows:

**Grain composition** comprises:

Brokens having the length not reaching 5.0 parts and not passing through Sieve No. 7 not exceeding 10%. The rest shall be brokens having the length as from 5.0 parts onward. Of all these there may be Whole kernels not exceeding 15.0% and Small brokens C1 not exceeding 1.0%

**Rice and matters that may be present:**

Glutinous rice not exceeding 1.5%, of this there may be Small glutinous broken  
C1 not exceeding 0.5%  
Foreign matter not exceeding 0.5%

**(8) White broken rice A1 Super**

Shall be rice obtained from the milling of White rice 100%, White rice 5% and  
White rice 10% and (shall) have grain composition as follows:

**Grain composition** comprises:

Broken having the length not reaching 6.5 parts and not passing through Sieve  
no. 7 for the entire quantity. Of all these there may be broken having the length  
as from 6.5 parts onwards and Whole kernels combined not exceeding 15.0% and  
Small Broken C1 not exceeding 5.0%

**Rice and matters that may be present:**

Glutinous rice not exceeding 1.5%, of this there may be Small glutinous broken  
C1 not exceeding 0.5%  
Foreign matter not exceeding 0.5%

**Clause 7** The standards of Thai Fragrant rice of the type and grade of Cargo rice as per  
Clause 4 shall be specified as follows:

**(1) Cargo rice 100%**

Shall have grain composition as follows:

**Grain Composition** comprises :

Whole kernels not less than 80.0%

Broken having the length as from 5.0 parts onward but not reaching 8.0 parts not  
exceeding 4.5% The rest shall be Head rice having the length as from 8.0 parts  
onward.

**Rice and matters that may be present:**

Red kernels	not exceeding 1.50%
Yellow kernels	not exceeding 0.75%



Chalky kernels	not exceeding 6.00%
Damaged kernels	not exceeding 0.75%
Glutinous rice	not exceeding 1.50%
Paddy	not exceeding 1.00%
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 5.0%	

**(2) Cargo rice 5%**

Shall have grain composition as follows:

**Grain Composition** comprises:

Whole kernels not less than 75.0%

Brokens having the length as from 3.5 parts onward but not reaching 7.5 parts not exceeding 7.0% The rest shall be Head rice having the length as from 7.5 parts onward.

**Rice and matters that may be present**

Red kernels	not exceeding 2.0%
Yellow kernels	not exceeding 1.0%
Chalky kernels	not exceeding 6.0%
Damaged kernels	not exceeding 1.0%
Glutinous rice	not exceeding 1.5%
Paddy	not exceeding 1.0%
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 6.0%	

**(3) Cargo rice 10%**

Shall have grain composition as follows:

**Grain Composition** comprises:

Whole kernels not less than 70.0%

Brokens having the length as from 3.5 parts onward but not reaching 7.0 parts not exceeding 12.0% The rest shall be Head rice having the length as from 7.0 parts onward.

**Rice and matters that may be present:**

Red kernels	not exceeding 2.0%
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Yellow kernels	not exceeding 1.0%
Chalky kernels	not exceeding 7.0%
Damaged kernels	not exceeding 1.0%
Glutinous rice	not exceeding 1.5%
Paddy	not exceeding 2.0%
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 7.0%	

**(4) Cargo rice 15%**

Shall have grain composition as follows:

**Grain Composition** comprises:

Whole kernels not less than 65.0%

Broken having the length as from 3.0 parts onward but not reaching 6.5 parts not exceeding 17.0% The rest shall be Head rice having the length as from 6.5 parts onward.

**Rice and matters that may be present:**

Red kernels	not exceeding 5.0%
Yellow kernels	not exceeding 1.0%
Chalky kernels	not exceeding 7.0%
Damaged kernels	not exceeding 1.5%
Glutinous rice	not exceeding 2.5%
Paddy	not exceeding 2.0%
Undeveloped kernels, Immature kernels, Other seeds and Foreign matter either singly or combined not exceeding 8.0%	

Clause 8 The test methods for Amylose content, Moisture, Alkali-spreading value, Cooked rice kernels in boiling water and Iodine staining test according to Appendix A, B, C, D or E appended to “Notification, Subject: Criteria for inspection of Thai Hom Mali rice” currently in use shall be applicable mutatis mutandis.

In case the inspection for the purity of Thai Fragrant rice of any stack or portion cannot be determined clearly by the methods as in Appendix A, C, D or E the inspection by DNA finger prints method is also possible.

Clause 9 Thai Fragrant rice exported in bags or other containers shall be labelled on such the names in English “THAI FRAGRANT RICE or THAI JASMINE RICE or THAI AROMATIC RICE or any other names of same meaning, but not “THAI HOM MALI RICE”. The size of the letters shall be clearly eligible on such containers.

- Clause 10 In case of the purchase/sale of Thai Fragrant rice as per sample or conditions other than the specifications in Clause 6 or 7 of this standards, such Thai Fragrant rice as per sample or conditions shall have Thai Fragrant rice purity no less than 80%, and the proportion of the blending to be stipulated on the permit.
- Clause 11 In case of any dispute or controversy relating to the various characteristics of rice kernels, the determination by Department of Foreign Trade shall be final.
- Clause 12 The export of rice that has content of fragrant rice of Kao Dok Mali 105 variety and or RD 15 variety blended equal to or more than 92.0% shall be considered as the export of Thai Hom Mali Rice according to the related Notification of Ministry of Commerce.

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**Notes:** *The standards in Thai version are authentic and valid in case of dispute.*