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# **TECHNICAL SPECIFICATIONS FOR REGISTRATION OF GEOGRAPHICAL INDICATION**

## **1. NAME OF THE GEOGRAPHICAL INDICATION**

Chinese name: 盘锦大米

Transcription in Latin characters: Panjin Da Mi

Translation for information purposes: Panjin Rice

## **2. CATEGORY OF THE PRODUCT FOR WHICH THE NAME IS PROTECTED**

Fruit, vegetables and Cereals (fresh or processed) - Rice

## **3. APPLICANT**

Name of the applicant: Panjin Municipal Government, Liaoning Province

Address of the applicant: Hongguan Building, Liaodong Bay  
New Area, Panjin, Liaoning, Zip Code: 124010

## **4. PROTECTION IN CHINA**

Date of protection: Sept. 10<sup>th</sup>, 2002

Proof of protection: The General Administration of Quality

Supervision, Inspection and Quarantine of the People's

Republic of China (AQSIQ), Notice (2002) No.91

## **5. DESCRIPTION OF PRODUCT**

The producers cultivate the japonica rice by using Yanfeng, Jindao, Fengjin, Yimuhu, Qiutianxiaoding, and other excellent japonica rice varieties which is suitable for growing in saline-alkali soil and temperate continental semi-humid monsoon climate and dry nursery seedlings technology. Then they process the japonica rice to Panjin Rice. The seeds are bred by Liaoning Saline-alkali soil research institution, Panjin North Agriculture Technology Development Co., Ltd., and other organizations.

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## **Characteristics**

The appearance of Panjin Rice is bluish white with gloss, the rice chalkiness degree is low, the grains are oval, full, and have little broken. After cooking, the color of the rice is bright and luster of the rice is smooth. In addition, the rice tasted soft, and has slight sweet flavor. Furthermore, the rice can maintain soft mouthfeel after cooling.

## **Physical and chemical indicators**

The chalky kernel rate of the first level high quality rice is less than or equal to 10%, the chalky kernel rate of the second level high quality rice is less than or equal to 20%, the chalky kernel rate of the third level high quality rice is less than or equal to 30%. The amylase content is 14% to 19%. What's more, the gel consistency is more than or equal to 72 mm. Moreover, the taste assessment value is range of 80-90 points. Panjin Rice has earned the Chinese famous brand products, well-known trademark in China, and specified rice for the Beijing Olympic Games. In addition, Panjin Rice got the first place in the evaluation of the most popular brand of Chinese agricultural product in 2012, 2013, and 2015. In 2015, for all the rice brand in China, Panjin Rice obtained the first place in the evaluation of brand value in China with 22.7 billion. The next year, the brand value became 27.3 billion.

## **6. CONCISE DEFINITION OF THE GEOGRAPHICAL AREA**

Definition of the geographic position:

The administrative region of Panjin City, Liaoning Province.

Production and processing technology:

In the administrative region of Panjin City, Liaoning Province, the producers cultivate rice with dry nursery technology and sparse planting. The producers adopted the processing technologies such as cleaning, husking, rice milling, rice grading, packaging, polishing and color sorting to process the rice.

## **7. LINK WITH THE GEOGRAPHICAL AREA**

Panjin is located in the south of the Songliao Plain. It is also located between 40°41'-41°27'. Furthermore, Panjin is at the centre area of Liaohe Delta that it is

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alluvial plain. According to entire geographical situation what mentioned above, Panjin is recognized as the best area for cultivating rice. The total area of Panjin is 4,063 square kilometres. 28 percent of the total area is used to plant rice, the ratio of the area for planting rice to the total planting area is 85%.

#### Relationship with Geographical Features

##### **The relationship with soil**

The soil type in Panjin is coastal saline paddy soil, the PH value of the surface soil is 8.0-9.1, total salt content is 1.0g/kg to 6.0g/kg, the average content of organic material is 18.9g/kg. Because the special alkaline soil is rich in nitrogen, phosphorus, kalium, and other beneficial substances, the rice that grows on this type of soil has lower amylose content, high consistency. According to 779 inspection reports of Panjin Rice conducted by Panjin Inspection and Testing Center from January 2015 to August 2018, the amylose content of Panjin Rice is 15.0-18.5% and gel consistency of Panjin Rice is 75-90mm. Therefore, Panjin Rice tastes soft and chewy.

##### **The relationship with climate**

Panjin is temperate continental semi-humid monsoon climate, has four distinct seasons and simultaneous heat and moisture. The frost-free season has 175 days. In September which is the filling stage for rice, the photosynthesis of rice is enhanced because of the plenty sunshine. The high filling speed leads to the decrease of chalkiness and reduction of amylose. So, the organic materials in the rice are adequately converted into saccharides. That is the reason that the Panjin Rice has slight sweet taste. What's more, the large temperature between day and night is beneficial to accumulation of organic material and growth. The special situations play an essential role in protecting the maturity of Panjin Rice.

##### **Relationship with water**

Panjin is known as the capital of wetland, the land is flat with many rivers, canals, and reservoirs. There are 21 rivers in Panjin. The rivers and the plenty precipitation can

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provide sufficient irrigation water for cultivating rice. The paddy irrigation water in Panjin is pollution free and high quality.

### **Relationship with Production Technology**

Rice planting history in Panjin started in 1894. The written record about the rice planting was started in 1907. In 1928, Zhang Xueliang established Yingtian Co., Ltd. The company set a precedent for rice production mechanization in Northeast China. Panjin becomes an important national commodity grain base because of the more than 100 years history of traditional cultivation. The annual output of high quality rice is more than 1 million tons. The producer in Panjin created the crab-rice ecological planting model. Rice and crabs have a symbiotic relationship. This model will decrease fertilization and disinsection or avoid using fertilizers and pesticides so that the producers can make sure the quality of rice. Recently, Panjin has comprehensively promoted to establish modern agriculture demonstration area, national agricultural product quality management demonstration area and national industrial integration demonstration area. Moreover, the model that the producers adopt the farmland and plant rice, breed crabs and mudfish on the farmland is being popularized in China. The enterprises use the modern low-temperature green grain storage technology to store rice and closed physical machinery clean processing technology to process the rice during the entire process. So, Panjin Rice has higher quality.

### **8. SPECIFIC RULES CONCERNING LABELLING AND USING (IF ANY)**

None

### **9. CONTROL BODY / CONTROL AUTHORITY RESPONSIBLE FOR CHECKING THE RESPECT OF THE PRODUCT SPECIFICATIONS**

Liaoning Panjin Quality and Technical Supervision Bureau. Address: Liaodong Bay New District Building A section 5, Panjin, Liaoning