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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25231-2010

Grain and oil machinery - Jet-air rice whitening machines

粮油机械 喷风碾米机

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Foreword

Appendix A of this standard is a normative appendix. This standard is proposed by the National Grain Bureau. This standard by the National Grain Standardization Technical Committee. The drafting unit of this standard. National Bureau of Food and Economics Wuhan Institute of scientific research and design. The main drafters of this standard. Wang Hui, Liu Hu, Long Jiying. Cereals, Oils and Machinery Machinery

1 Scope

China's national standard for jet-air rice whitening machines. It specifies the types and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of the whitening machines used in rice milling. Whitening is the step that turns brown rice into white rice by abrading away the bran layers and the germ, and it is where the value of a rice mill is made or lost. The grain is fragile: a rice kernel that breaks during milling is worth a fraction of a whole one, and the head rice yield - the proportion emerging unbroken - is the single number a mill is judged on. Whitening is also the step that generates heat, because it works by friction and abrasion, and heat is what cracks the kernel. The jet-air machine addresses exactly that. Air is blown into the whitening chamber through the hollow shaft and out through the roll, and it does three things at once: it cools the rice, it carries the bran away continuously so it does not accumulate and re-abrade the grain, and it reduces the pressure needed in the chamber to achieve a given degree of whiteness. Less pressure and less heat means fewer broken kernels at the same milling degree, which is the whole reason the design exists. So the standard specifies not only the capacity and the power but the properties that determine milling quality: the degree of whiteness achieved and its uniformity, the broken rice rate, the temperature rise of the grain, the bran removal, and the air system that produces all of it - along with the wear parts, the safety and the dust control that any grain machine needs. Issued on 26 September 2010 and in force since 1 March 2011.

This standard specifies the relevant terms and definitions, working principle, classification, model and basic parameters, technical requirements, test method Law, inspection rules, marking, packaging, shipping and storage requirements. This standard applies to the

processing of brown rice horizontal iron roller, sand roller jet mill.

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

GB/T 191 packaging and storage icon

GB/T 699 high quality carbon structural steel Performance test of

GB/T 1236 industrial ventilators with standardized air ducts Rice

GB/T 3768 Acoustic vocal pressure method for the determination of noise sources Sound power level Reflective surface above the use of envelope measurement of the surface of the simple method Mechanical electrical machinery - Electrical equipment - Part 1. General technical requirements GB 5226.1

GB/T 5502 grain and oil inspection rice processing accuracy test

GB/T 5503 Grain and oil inspection

GB/T 9239.1 Mechanical vibration - Constant (rigid) rotor balance - Quality requirements - Part 1. Testing of tolerances and tolerances

GB/T 9239.2-2006 Mechanical vibration - Constant (rigid) rotor balance - Quality requirements - Part 2. Balance error

GB/T 12620 long hole, rectangular hole and round hole sieve GB/T 13306 signs

GB/T 18810 brown rice General specification for packaging of grain and oil machinery products GB/T General specification for grain and oil machinery assembly GB/T

GB/T 24856 General technical conditions for grain and oil machinery castings GB/T General specification for plate and steel components for grain and oil machinery General technical requirements for coating of grain and oil machinery products GB/T GB Z158 Workplace Occupational Hazards Warning Signs JB/T 6083 Milling Wheel

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Spraying rice mill jet-airwhiteningmachine Milled rice from the inside of the roller to the white room into the air flow of rice equipment.

3.2 Roller whitening cylinder A cylindrical or truncated cone for crushing rice.