

ICS 67.260

CCS X 91



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

GB/T 26897-2011

Grain and oil machinery - Iron roll rice whiteners

粮油机械 铁辊碾米机

Issued on: September 29, 2011

Implemented on: December 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

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Foreword

Appendix A of this standard is a normative appendix. The standard proposed by the National Food Authority. This standard by the National Standardization Technical Committee OILS. This standard was drafted. National Food Reserve Wuhan Science Research Institute. The main drafters of this standard. Wang Hui, Liu. Grain and oil machinery iron roll Milling Machine

1 Scope

China's national standard for iron roll rice whiteners. It specifies the terms and definitions, the working principle, the classification, the model designation and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of the machines that whiten brown rice with an iron roll. Whitening is the operation that turns brown rice into white rice by removing the bran layers and the germ, and it is where a rice mill makes or loses its money. The kernel is being abraded, and every pass that removes bran also breaks grain: broken rice sells for a fraction of the price of head rice, so the whole art of the machine is to remove the bran with as little breakage as possible. The two families of whitener do it differently. An abrasive roll cuts the bran off with a grinding surface and works by friction against the stone; an iron roll works by friction between the grains themselves, the ribbed iron roll compressing and circulating the mass inside a slotted screen so that the kernels rub against each other and shed the bran. The iron roll machine works at higher pressure and lower speed, produces a whiter, more polished surface and a better appearance, and is the machine used for the final passes and for the high-quality rice; it is also gentler on a kernel that has already been through an abrasive pass. What the standard specifies follows from that: the whitening degree achieved and the breakage produced, the capacity and the power consumption, the roll and the screen and their materials and wear, the pressure adjustment at the discharge, the aspiration that removes the bran and the heat, the balance and vibration of a fast rotating roll, and the noise and safety requirements. Issued on 29 September 2011 and in force since 1 December 2011.

This standard specifies the relevant terms iron roll rice mill and definitions, working

principle, classification, model and basic parameters, technical requirements, test side Method, inspection rules, marking, packaging, transportation and storage. This standard applies to the processing of brown iron roll rice mill.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs

GB/T 699 high-quality carbon structural steel GB 1354-2009 rice

GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB 5491 grain and oilseeds testing for sampling, and sample method

GB/T 5502 Inspection of grain and rice-based machining accuracy test

GB/T 5503 Inspection of grain and broken rice test method

GB/T 9239.1 Mechanical vibration steady state (rigid) rotor balance quality requirements - Part 1. Specification and balance tolerance test

GB/T 9239.2-2006 mechanical vibration steady state (rigid) rotor balance quality requirements - Part 2. Balance errors

GB/T 12620 long hole, rectangular and round hole sieve GB/T 13306 signs GB/T 18810 Brown

GB/T 24854 grain and oil machinery products packaging technology

GB/T 24855 General technical requirements grain machinery assembly

GB/T 24856 Oil Machinery casting general technical conditions

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Iron roll Milling Machine ironrolricewhitener The rolls for the iron roller rice mill.

3.2 Horizontal Milling Machine horizontalricewhitener Milling machine spindle mounted

horizontally.

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