

Quality and food safety standards in the cashew processing process

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Introduction

Quality standards in cashew processing play a vital role in ensuring a final product that meets consumer expectations and international market requirements.

1. Essential parameters for quality processing of cashew nuts

THE Aspects to consider for quality processing of cashew nuts are documentation, quality control and supervision.

1.1. Documentation

Processors should record information at every stage of the processing process. Recording kernel weight decline throughout the process is crucial for making informed process management decisions and optimizing efficiency.

Each department within the facility must record daily data regarding the transformation process, which is then entered into a centralized reporting system for management. Key parameters to monitor include:

- ✓ Productivity
- ✓ Yield
- ✓ Quality and consistency of quality
- ✓ Losses
- ✓ Processes
- ✓ Critical control points related to food safety
- ✓ Utilities (e.g. electricity/water/ICT)
- ✓ Traceability from stored raw cashew nuts to packaged high quality almonds
- ✓ Efficient use of materials (e.g. oil/gloves/packaging materials)

1.2. Quality control

Quality control is a formalized system that documents processes, procedures, and responsibilities for achieving quality policies and objectives.

In the cashew processing process, quality control is crucial to ensure a high-quality final product. Here are the main steps and aspects involved:

1.2.1. Inspection of raw materials

- Checking the moisture content of raw nuts to prevent deterioration.
- Check for the absence of impurities, mold or other visible defects.

1.2.2. Supervision of the transformation stages

- While shelling, make sure that the almonds remain intact.
- When peeling, check that there is no skin residue left.
- Check the sorting to separate the compliant almonds from the non-compliant ones.

1.2.3. Hygiene conditions

Processing premises must meet strict cleanliness standards.



Staff must follow health protocols, such as wearing gloves and masks.

1.2.4. Microbiological and physicochemical tests

- Carry out analyses to ensure the absence of contaminants (microorganisms, heavy metals, etc.).
- Check parameters like oil content or sensory profiles for optimal taste.

1.2.5. Labeling and packaging

- Check that the information on the packaging (origin, date, batch, etc.) is accurate and legible.
- Ensure that the packaging materials protect the nuts well against moisture and shock.

1.3. Supervision

Cashew nut processing requires a series of technical procedures. The process of processing a single raw cashew nut can take up to seven days, spread over several stages.

Any error at any stage of the process can compromise the quality or quantity of the almonds, which could result in reduced profits. Effective daily monitoring is therefore essential to ensure that processing results in significant quantities of quality almonds. Here's how effective supervision can be implemented:

1.3.1. Planning and monitoring of operations

- Establish a detailed plan of the processing stages (husking, peeling, sorting, etc.).
- Designate qualified supervisors for each key step, responsible for verifying compliance with procedures.

1.3.2. Real-time control

- Observe each step of the process to immediately detect defects or deviations.
- Check machines regularly to ensure they are working properly and avoid breakdowns.

1.3.3. Staff training

- Train employees in quality standards and hygiene rules.
- Organize regular refresher sessions to reinforce good practices.

1.3.4. Use of quality control tools

- Implement measuring tools to monitor parameters such as humidity, size and appearance of almonds.
- Maintain a data log for each batch of processed nuts to track problems.

1.3.5. Communication and collaboration

- Encourage clear communication between teams to quickly resolve identified issues.
- Conduct frequent meetings to assess performance and adjust processes as needed.

1.3.6. Regular audits and inspections

- Schedule internal inspections to ensure compliance with standards.
- Use external bodies to carry out audits and ensure compliance with international standards.



2. Guidelines for Running a Good Quality Cashew Processing Business

Effective management is essential for the profitability of a cashew processing facility. Here are some key guidelines to ensure the success of your processing procedures:

2.1. Essential tasks

- Always collect and review data to guide your decisions.
- Ensure your team has the essential expertise.
- Assign tasks based on appropriate skills.
- Maintain detailed accounting at each stage of the process to optimize efficiency.
- Ensure compliance with global food safety standards.
- Perform regular maintenance on all equipment to avoid failures.
- Monitor the cleanliness of the facilities to ensure smooth operations.
- Secure your inventory against pests.
- Manage financially accurately and keep a rigorous record of finances.

2.2. Daily review

- Implement effective worker supervision: Ensure that each worker performs their tasks correctly.
- **Monitor and evaluate each step of the process:** Regular checks ensure that the process is running smoothly.
- Track customer feedback: Use feedback to improve your products and services.
- Conduct strategic planning of daily activities: Plan your daily activities to maximize their effectiveness.
- Establish and monitor the welfare, health and safety of workers: Ensure that the working environment is safe and healthy.
- **Implement fire prevention measures:** Establish fire safety protocols.
- Establish and maintain good customer relationships: Good relationships build customer loyalty and a good reputation.

2.3. Regular review

- **Implement traceability mechanisms:** Track the progress of your products, from raw nuts to ready-to-eat almonds.
- **Developing Business Sustainability:** Plan for the long-term success of your business.
- Outsource and stock the right spare parts for your machines: Be prepared to make repairs to minimize downtime.
- **Develop a realistic supply plan:** Ensure a regular supply of necessary materials.
- Ensure logistics planning and management: Plan the efficient transportation and storage of products.
- **Design sales promotion strategies:** Develop marketing strategies to boost sales.



- **Practice environmental impact management:** Implement practices that minimize your environmental footprint.
- Develop corporate social responsibility strategies: Participate in activities that benefit your community.
- Carry out insurance and risk management: Protect your business against potential risks

Conclusion

In conclusion, quality standards in cashew processing are essential to ensure a final product that meets the needs of local and international markets. These measures ensure food safety, preserve the organoleptic properties of the kernels, and strengthen the competitiveness of companies globally.

These standards, which prioritize raw material management, adherence to hygiene protocols, the use of appropriate technologies, and ongoing staff development, contribute not only to customer satisfaction but also to improving the value of the production chain. Strict adherence to these standards also allows access to certifications and quality labels, which enhance the reputation and credibility of producers and processors.

Sources: Documentation summary