



## LE DUONG CASHEW COMPANY LIMITED

**WA Factory:** Tan Long 2 Hamlet, Long Ha Commune, Dong Nai City, Vietnam  
**A & WW Factory:** DT741 Road, Phu Hiep Hamlet, Phu Rieng Commune, Dong Nai City, Vietnam  
**Branch & Office:** Nha Tam Road, Long Phuoc Quarter, Phuoc Binh Ward, Dong Nai City, Vietnam  
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**PRODUCT  
SHEET**

# LE DUONG CASHEW PRODUCT SPECIFICATIONS

## COMMERCIAL GRADING & QUALITY REFERENCE

**Source:** AFI Cashew Grades | **Revision date:** 22/07/2026 | **Document:** REV11

### Scope (coding)

- WW** = White Wholes (peeled), AFI reference (Fancy). Grades: **WW160** (extension), **WW180, WW210, WW240, WW320, WW450**.
- WS / LP** = White Splits / Large Pieces (AFI styles).
- WA** = Raw skin-on (testa retained), **unroasted, moisture  $\leq 8.5\%$**  - **WA160, WA170, WA180, WA210, WA240, WA320**.
- A** = Roasted & salted skin-on (testa retained) - **A160, A170, A180, A210, A240, A320, A450**.

### 1. GENERAL QUALITY - WHITE KERNELS (AFI REFERENCE)

- Appearance:** White to pale ivory; clean; free from live insects/foreign matter; odor- and mold-free.
- Moisture (white/peeled):**  $\leq 5.0\%$  (AFI general 3-5%).
- Maximum defects (Fancy - whole):** Total  $\leq 8\%$ , Serious damage  $\leq 1\%$  (insect, mold, foreign matter, scorching, speckles, scrape marks, shriveling).
- WS/LP note:** Max affected kernels  $\leq 10\%$ ; clean surface; no mold; no severe scorching.
- Chemical (white/raw):** FFA  $\leq 1.0\%$  (as oleic); Peroxide Value  $\leq 2$  meq  $O_2$ /kg fat.
- Microbiology (typical):** Salmonella Absent/25 g; E. coli  $< 10$  CFU/g; TPC  $\leq 1 \times 10^4$  CFU/g; YM  $\leq 1 \times 10^2$  CFU/g.



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### 2. APPLICABLE WHITE WHOLE GRADES & NUT COUNT REFERENCE

| Product Grade | Standard Count (kernels/lb) | Nut Count Reference (nuts/kg) |
|---------------|-----------------------------|-------------------------------|
| WW160         | 160                         | 350–355                       |
| WW180         | 180                         | 395–405                       |
| WW210         | 210                         | 460–470                       |
| WW240         | 240                         | 520–530                       |
| WW320         | 320                         | 705–710                       |
| WW450         | 450                         | 990–1000                      |

Applicable grades: WW160, WW180, WW210, WW240, WW320 and WW450. These commercial nuts/kg references follow the approved Le Duong specification.

### 3. WHITE WHOLE QUALITY LEVELS — ORCHID / LOTUS / JASMINE / DAISY

| Quality Level | Moisture | Broken | Nut Count                      | Lower Size | Total Defects | Description                                                                                         |
|---------------|----------|--------|--------------------------------|------------|---------------|-----------------------------------------------------------------------------------------------------|
| Orchid        | ≤ 5%     | ≤ 10%  | ≤ grade standard               | ≤ 10%      | ≤ 12%         | Bright, uniform colour and size; 100% machine-processed; premium quality.                           |
| Lotus         | ≤ 5%     | ≤ 10%  | Grade standard ± 20 kernels/lb | ≤ 15%      | ≤ 15%         | Uniform size and colour; around 35–50% of kernels may show small, faint knife marks ; good quality. |
| Jasmine       | ≤ 5%     | ≤ 10%  | Grade standard ± 20 kernels/lb | ≤ 20%      | ≤ 20%         | Uniform size and colour; 80–100% of kernels may show knife marks ; affordable price.                |
| Daisy         | ≤ 5%     | ≤ 10%  | Grade standard ± 40 kernels/lb | ≤ 20%      | ≤ 20%         | Uniform size and colour; 80–100% of kernels may show knife marks ; economy price.                   |

All percentages are maximum levels by weight. The quality tiers above apply to WW160 / WW180 / WW210 / WW240 / WW320 / WW450. Shipment-specific inspection and acceptance remain subject to the approved sales contract and product specification.

### 4. BROKEN GRADES - SPECIFICATIONS

- WS - White Splits:** ≥ 90% halves; affected ≤ 10%; Moisture ≤ 5.0%.
- LP - Large Pieces:** typical particle 6-19 mm; sieve reference pass 5.9 mm; retain > No. 6.0; affected ≤ 10%; Moisture ≤ 5.0%.

### 5. WA - RAW SKIN-ON (TESTA), UNROASTED (MOISTURE ≤8.5%)

- Definition:** Whole kernels with testa (skin) retained; unroasted, unsalted.
- Moisture:** ≤8.5%. **Chemical:** FFA ≤ 1.0%; PV ≤ 2 meq O<sub>2</sub>/kg fat.
- Microbiology:** Salmonella Absent/25 g; E. coli < 10 CFU/g.
- Aflatoxins:** Comply with applicable legal limits; test scope as per PO.
- Packaging:** 10 kg vacuum PE × 2/carton (or 11.34 kg × 2); nitrogen flush optional; staple-free cartons.



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### WA CODES & MAPPING

| Code  | Equivalent WW | Count/kg | Notes                         |
|-------|---------------|----------|-------------------------------|
| WA160 | WW160         | 350-355  | Commercial extension, > WW180 |
| WA170 | WW170         | 370-378  | Commercial extension          |
| WA180 | WW180         | 395-405  |                               |
| WA210 | WW210         | 460-470  |                               |
| WA240 | WW240         | 520-530  |                               |
| WA320 | WW320         | 705-710  |                               |

### 6. A - ROASTED & SALTED SKIN-ON (TESTA RETAINED)

- Definition:** Whole kernels with testa retained; roasted (dry or oil) and salted.
- Salt (NaCl):**  $\leq 1\%$  (or per contract); even distribution; no caking.
- Finished moisture:**  $\leq 3.0\%$  (crispness & stability).
- Roasting quality:** No rancid/oxidized odour; (oil roast) frying oil PV  $\leq 5$  meq O<sub>2</sub>/kg, FFA  $\leq 0.30\%$ .
- Microbiology:** Salmonella Absent/25 g; E. coli  $< 10$  CFU/g; TPC  $\leq 1 \times 10^4$ ; YM  $\leq 1 \times 10^2$ .
- Shelf life:** 24 months in intact vacuum packaging ( $\leq 20$  °C; RH  $< 60\%$ ).
- Packaging:** 10 kg high-barrier vacuum  $\times$  2/carton; nitrogen flush recommended; oxygen absorber optional.

### A CODES & MAPPING

| Code | Equivalent WW | Count/kg | Notes                         |
|------|---------------|----------|-------------------------------|
| A160 | WW160         | 350-355  | Commercial extension, > WW180 |
| A170 | WW170         | 370-378  | Commercial extension          |
| A180 | WW180         | 395-405  |                               |
| A210 | WW210         | 460-470  |                               |
| A240 | WW240         | 520-530  |                               |
| A320 | WW320         | 705-710  |                               |
| A450 | WW450         | 990-1000 |                               |





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### 7. PACKAGING, STORAGE & LABELLING (COMMON)

- **Standard packaging:** 10 kg vacuum × 2/carton (or 11.34 kg × 2); nitrogen flush optional; cartons ≥ 200-lb test, clean, dry, staple-free.
- **Labelling:** Product name & code (WW/WS/LP/WA/A), Net WT, Lot/Batch, MFG/BBE, Origin: Vietnam, storage conditions, destination info if requested.
- **Storage:** ≤ 20 °C, RH < 60-65%; dry, away from sunlight/odors; reseal after opening.
- **Container hygiene:** Odor-free, pest-free, clean & dry; no naphthalene, no methyl bromide.
- **Fumigation:** Food-grade CO<sub>2</sub> only if required; residues must comply with applicable laws.

### 8. REGULATORY & TESTING (GLOBAL)

Products are manufactured under **GMP/HACCP**. Residues and contaminants (e.g., pesticides, aflatoxins, heavy metals) must comply with **applicable legal limits in the country of import**. Testing scope, LOQs, and certificates will be defined in the **Purchase Order (PO)**. Use of **ISO/IEC 17025-accredited** laboratories is recommended.

### 9. SAMPLING & AQL (ACCEPTANCE QUALITY LIMIT)

Sampling test, General Inspection Level II. **AQL: Critical 0, Major 1.5, Minor 4.0**. Composite samples ≥ 500 g.

- Sampling based on **ANSI** (equivalent to ISO 2859-1). AQL thresholds (Critical 0.0; Major 1.5; Minor 4.0) are company policy within the Z1.4 framework. Composite sample ≥ 500 g is an internal operational requirement for cashew kernels.
- **Critical 0.0** (live insects, visible mold/fungal growth, glass/metal/plastic fragments, toxic/chemical contamination, foreign nut species.)

**Zero tolerance: If Critical ≥ 1 - Reject lot.**

- **Major 1.5** rancid/oxidized kernel; severe scorching/burn; deep insect damage; serious decay; moisture non-conformity (> 5.0% white; > 8.5% raw skin-on; > 10.0% broken grades; > 3.0% roasted skin-on); internal mold.

**If Major defects > Ac (AQL 1.5) - Reject; else Accept.**

- **Minor 4.0** slight scrape marks; light speckles; superficial blemishes; slight shriveling; minor color variance not affecting safety.

**If Minor defects > Ac (AQL 4.0) - Reject; else Accept.**



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### 10. CONSOLIDATED SKU SUMMARY

| Line | Code  | Equivalent WW | Count/kg | Moisture         | Key Note                                                    |
|------|-------|---------------|----------|------------------|-------------------------------------------------------------|
| WW   | WW160 | WW160         | 350-355  | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WW   | WW180 | WW180         | 395-405  | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WW   | WW210 | WW210         | 460-470  | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WW   | WW240 | WW240         | 520-530  | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WW   | WW320 | WW320         | 705-710  | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WW   | WW450 | WW450         | 990-1000 | ≤5.0%            | Orchid / Lotus / Jasmine / Daisy per approved specification |
| WS   | WS    | -             | N/A      | ≤5.0%            | Splits ≥90%; affected ≤10%                                  |
| LP   | LP    | -             | N/A      | ≤5.0%            | Pass 5.9 mm; retain > No.6.0; affected ≤10%                 |
| WA   | WA160 | WW160         | 350-355  | ≤8.5%            | Skin-on raw                                                 |
| WA   | WA170 | WW170         | 370-378  | ≤8.5%            | Skin-on raw                                                 |
| WA   | WA180 | WW180         | 395-405  | ≤8.5%            | Skin-on raw                                                 |
| WA   | WA210 | WW210         | 460-470  | ≤8.5%            | Skin-on raw                                                 |
| WA   | WA240 | WW240         | 520-530  | ≤8.5%            | Skin-on raw                                                 |
| WA   | WA320 | WW320         | 705-710  | ≤8.5%            | Skin-on raw                                                 |
| A    | A160  | WW160         | 350-355  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A170  | WW170         | 370-378  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A180  | WW180         | 395-405  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A210  | WW210         | 460-470  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A240  | WW240         | 520-530  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A320  | WW320         | 705-710  | ≤3.0% (finished) | Skin-on roasted & salted                                    |
| A    | A450  | WW450         | 990-1000 | ≤3.0% (finished) | Skin-on roasted & salted                                    |

### 11. GLOSSARY (QUICK REFERENCE)

- **FFA (Free Fatty Acids):** hydrolytic rancidity indicator; % oleic acid; lower is fresher (typ. ≤ 1.0%).
- **PV (Peroxide Value):** early oxidative rancidity; meq O<sub>2</sub>/kg fat; lower is fresher (typ. ≤ 2 for raw kernels).
- **TPC / YM:** Total Plate Count / Yeast & Mold; hygiene indicators.
- **Testa (skin):** natural brown skin on the kernel. WA/A keep the testa; WW/WS/LP are peeled/white.