

## Produce Specification: Citrus Mandarin

| GENERAL APPEARANCE BY VARIETY |                         |                           |                                                                     |                                                                 |
|-------------------------------|-------------------------|---------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------|
| VARIETY                       | BRIX ° (SOLUBLE SOLIDS) | COLOUR                    | SENSORY                                                             | MATURITY                                                        |
| <b>Clementine</b>             | >10                     | Deep orange.              | Glossy, smooth skin. Strong tangy flavour. No off odours or tastes. | Light green colour affecting <10% of skin.                      |
| <b>Satsuma</b>                | >8.5                    | Deep orange, no greening. | Glossy, smooth skin, not puffy. No off odours or tastes.            | Light green colour affecting <10% of skin.                      |
| <b>Encore</b>                 | >8.5                    | Deep orange, no greening. | Glossy, smooth skin, not puffy. No off odours or tastes.            | Light green colour affecting <10% of skin.                      |
| <b>Afourer</b>                | >8.5                    | Deep orange, no greening. | Glossy, smooth skin, not puffy. No off odours or tastes.            | Light green colour affecting <10% of skin.                      |
| <b>NZ Nugget</b>              | >8.5                    | Uniform deep orange.      | Bumpy-knobbly skin, not puffy. No off odours or tastes.             | Light green tinge (<2 cm <sup>2</sup> ) affecting <5% of fruit. |

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| MANDARINS – GENERAL ACCEPTANCE CRITERIA |                                                                                                                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHAPE                                   | Rough to slightly squat                                                                                                                                                 |
| CLEANLINESS                             | Free from dirt, insect stains, residue or other foreign matter.                                                                                                         |
| UNSALEABLE DEFECTS                      |                                                                                                                                                                         |
| FOREIGN MATTER                          | Evidence of live insects.                                                                                                                                               |
|                                         | Nil foreign matter (e.g. glass, metal, hard plastics).                                                                                                                  |
| PRODUCT COUNT                           | No overcount.                                                                                                                                                           |
| PACK WEIGHT                             | No underweights                                                                                                                                                         |
| MAJOR DEFECTS                           |                                                                                                                                                                         |
| DISEASES                                | Fungal or bacterial rots of skin or flesh (e.g. Penicillin mould, brown rot, soft rot). Black/grey marks e.g. sooty blotch or sooty mould affecting > 4 cm <sup>2</sup> |
|                                         | Dark lesions on the fruit skin (e.g. Black spot, septoria spot)                                                                                                         |
|                                         | Black decay at the fruit core (Alternaria)                                                                                                                              |
| PHYSIOLOGICAL DEFECTS                   | Excessively puffy skin, separating from the flesh.                                                                                                                      |
|                                         | Dark irregular pitting on rind.                                                                                                                                         |
|                                         | Creasing (albedo) affecting >1 cm <sup>2</sup> .                                                                                                                        |
| PHYSICAL IMPURITIES                     | Cuts, holes, cracks or wounds that break the skin.                                                                                                                      |
| TEMPERATURE DAMAGE                      | Dark irregular pitting on rind (chilling injury).                                                                                                                       |
|                                         | Water-soaked, soft areas (freezing damage).                                                                                                                             |
| MINOR DEFECTS                           |                                                                                                                                                                         |
| DISEASES                                | Black/grey marks e.g. sooty blotch or sooty mould affecting >1 cm <sup>2</sup> of fruit surface.                                                                        |
| PHYSICAL IMPURITIES                     | Brown/black speckles (rust mite damage) affecting in aggregate >4cm <sup>2</sup>                                                                                        |
|                                         | Compression damage.                                                                                                                                                     |
| SURFACE INCONSISTENCIES                 | Oleocellosis (oil spotting) affecting >1 cm <sup>2</sup> of surface.                                                                                                    |
|                                         | Dark blemishes (e.g. stem end blemish) affecting in aggregate >2 cm <sup>2</sup> of surface around stem.                                                                |
|                                         | Light blemishes affecting in aggregate >4 cm <sup>2</sup> of surface.                                                                                                   |
| TEMPERATURE DAMAGE                      | Bleached yellow-orange areas (light sunburn) affecting >4 cm <sup>2</sup> . (1 cm <sup>2</sup> NZ Nugget)                                                               |

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| SIZE - DIAMETER                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |            |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
| CLEMINTINE                     | LOCAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MEDIUM       | 55 – 60 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LARGE        | 60 – 65 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EXTRA LARGE  | 60 – 70 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | JUMBO        | >70 mm     |
|                                | IMPORTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SMALL        | 55 – 63 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MEDIUM       | 63 – 68 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LARGE        | 68 – 75 mm |
| SATSUMA                        | LOCAL AND IMPORTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MEDIUM       | 55 – 60 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LARGE        | 60 – 65 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EXTRA LARGE  | 65 – 70 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | JUMBO        | 75 – 75 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EXTRA JUMBO  | >75 mm     |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PRE - PACKED | >50 mm     |
| ENCORE                         | LOCAL AND IMPORTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MEDIUM       | 55 – 60 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LARGE        | 60 – 65 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EXTRA LARGE  | 65 – 80 mm |
|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PRE - PACKED | >50 mm     |
| NZ NUGGET                      | MEDIUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55 – 60 mm   |            |
|                                | LARGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60 – 65 mm   |            |
|                                | EXTRA LARGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 65 – 70 mm   |            |
|                                | JUMBO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | >70 mm       |            |
|                                | PRE-PACKED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50 mm+       |            |
| RECEIVAL ALL MANDARINS         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |            |
| TEMPERATURE °C<br>(AT ARRIVAL) | 5 - 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |            |
| TOLERANCE                      | Unsaleable defects 0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |            |
|                                | Major defects <5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |            |
|                                | Minor defects <10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |            |
|                                | Combined total limit <10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |            |
|                                | <5% outside of size range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |            |
| PACKAGING &<br>LABELLING       | Packaging manufactured from new good grade materials or sanitised returnable crates.<br>Packaging to adhere to <b>Foodstuffs North Island Produce Packaging Guidelines</b> .<br>All labelling must meet the current legislative requirements.<br><b>Crate Card</b> must include the product description, SKU number (in large font), supplier name, grower/packer’s name, product grade, count/weight, and delivery date.<br><b>Pre-packaged</b> produce must display the grower’s name, the packed-on date, best before date or used by date (batch code optional) |              |            |
| SHELF LIFE                     | Produce must have a shelf life of <b>at least 5 days</b> upon arrival at the Distribution Centre, or direct to the store from the supplier.                                                                                                                                                                                                                                                                                                                                                                                                                         |              |            |

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|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    |  |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
| <b>TRANSPORT<br/>CONDITIONS</b>                                                      | Stack to Ti Hi specifications onto a stabilised pallet as per-ordered.<br>Refrigerated van with air bag suspension, unless otherwise approved.<br>Goods must be received in accordance with <b>Foodstuffs North Island Receiving and Carrier Guidelines</b> (refer to reference materials for more information)<br>Of note are pallet size, stacking standards and crate cards.                           |                                                                                    |  |
| <b>CHEMICAL<br/>CONTAMINATE<br/>RESIDUE</b>                                          | Relevant growers and/or producers, hold, will maintain, and will comply with all necessary certificates, licenses, permits, and other approvals required by Laws or the Policies and Compliance Requirements for the manufacture, packing, supply, and storage of the groceries. This includes NZGAP (including the Social Practice Standards add-on) and/or GLOBALG.A.P (including GRASP) certification. |                                                                                    |  |
| <b>ORGANICS</b>                                                                      | BioGro certificate, or equivalent, is required to supply organic products into both Foodstuffs stores and Distribution Centres. The current certificate should be available on the Foodstuffs Exchange.                                                                                                                                                                                                   |                                                                                    |  |
| <b>PHOTOS</b>                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    |  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |
|  |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                    |  |
| Blemish + Skin Markings                                                              |                                                                                                                                                                                                                                                                                                                                                                                                           | Skin Colouring                                                                     |  |
|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                           | Rots                                                                               |  |