

Product Technical Dossier

Product	Ground Calcium Carbonate (39.6 - 40.0% Ca)
CCL Product Code	P0302

Specification Details

	Specification
Identification	Positive
Assay (Anhydrous Basis)	CaCO ₃ : Min 98% Ca: Approx. 39.6 - 40.0% (Calculated)
Appearance	Crystalline Powder
Colour	White/Off White
Aroma	Characteristic
Flavour	Characteristic

Sieve Analysis	approx. 80% pass 40 mesh approx. 50% pass 60 mesh approx. 30% pass 80 mesh
Loss on Drying (200C, 4 hours)	Max 2.0%
Bulk Density	Approx. 0.46g/ml
Tapped Density	Approx. 0.68g/ml
Sulfate (SO ₄)	Max 0.2%
Acid Insoluble substances	Max 0.2%
Magnesium and Alkali Salts	Max 1%
Fluoride	Max 50mg/kg
Chloride (Cl)	Max 200ppm
Organic volatile impurities	Meets the requirements

Heavy Metal Limits

Heavy metals	Max 20ppm
Lead (Pb)	Max 0.5ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 1ppm
Iron (Fe)	Max 100ppm
Antimony (Sb), Copper (Cu), Chromium (Cr), Zinc (Zn), Barium (Ba), singly or in combination	Max 100ppm



Additional Technical Information

Raw Material Full Botanical / Chemical Name	E170 Calcium Carbonate
The material is Food Grade	Yes
Country of Origin	Italy/China
Country of Manufacture	Italy/China
Solubility in Water	Insoluble
Solubility in Alcohol	Insoluble
Molecular Formula	CaCO ₃
Molecular Weight	100.1
CAS Number	471-34-1
EC/EINECS Number	Calcium Carbonate: 207-439-9
Shelf Life from Date of Manufacture	Min 3 Years
Pharmacopeia Standard Used	EP and USP
Suitable for Vegetarians?	Yes
Suitable for Vegans?	Yes
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.

Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
E170 Calcium Carbonate	-	100%	Mineral

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

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Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	No	No	N/A
Nut and Nut Derivatives <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i>	No	No	N/A
Sesame Seeds and Sesame Seed Derivatives	No	No	N/A
Milk and Milk Derivatives (including lactose)	No	No	N/A
Egg and Egg Derivatives	No	No	N/A
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barleygrass)</i>	No	No	N/A
Soya and Soya Derivatives	No	No	N/A
Lupin and Lupin Derivatives	No	No	N/A
Mustard and Mustard Derivatives	No	No	N/A
Celery or Celery Derivatives (including Celeriac)	No	No	N/A
Fish and Fish Derivatives	No	No	N/A
Molluscs and their Derivatives	No	No	N/A
Crustaceans and their Derivatives	No	No	N/A
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	N/A

Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Additives / E Numbers	Yes	Yes	E170
Antioxidants	No	No	N/A
Ethylene Oxide	No	No	N/A
Gelatine	No	No	N/A
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Maize / Corn and any Derivatives	No	No	N/A
Legumes / Pulses	No	No	N/A
Rice and Rice Derivatives	No	No	N/A
Added Salt	No	No	N/A
Added Sugar / artificial or natural sweeteners	No	No	N/A
Aspartame	No	No	N/A
BHA / BHT (E320 / E321)	No	No	N/A
Caffeine	No	No	N/A
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Dextrose	No	No	N/A
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	No	No	N/A
Kiwi fruit	No	No	N/A
Polyols (sugar alcohols)	No	No	N/A
Grapefruit	No	No	N/A
Sorbic Acid (E200, E203)	No	No	N/A
Any other Preservatives	No	No	N/A
Ethanol	No	No	N/A
Honey	No	No	N/A
Lactose	No	No	N/A
Yeast and Yeast Derivatives	No	No	N/A
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A

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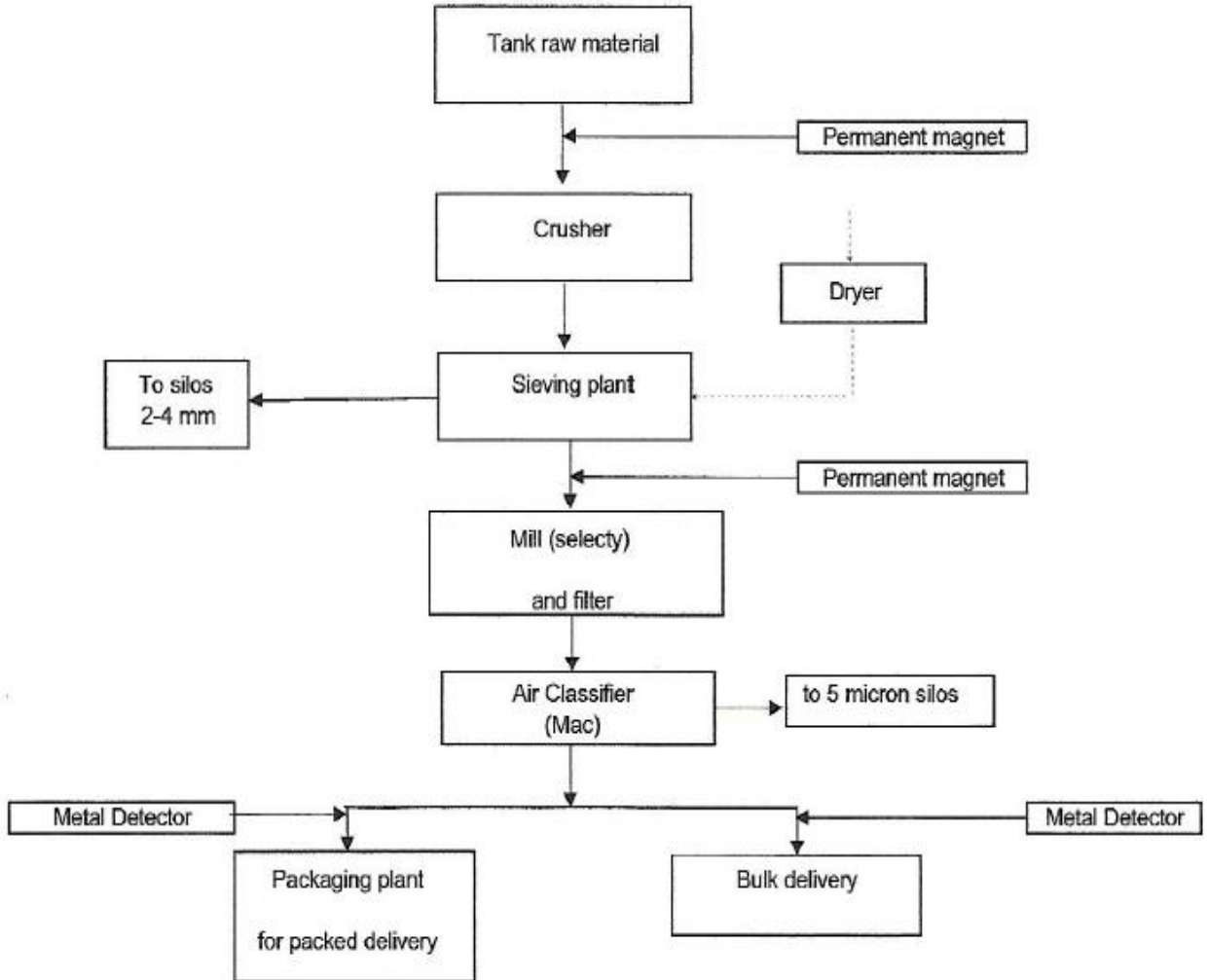
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Statements

<p>Confirmation of BSE / TSE Status This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.</p>	Yes
<p>This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.</p>	Yes
<p>Confirmation of GM Status This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.</p>	Yes
<p>Confirmation of Non-Irradiation Status This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.</p>	Yes
<p>Confirmation of Nandrolone Status This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.</p>	Yes
<p>Confirmation of IOC Product Status This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.</p>	Yes
<p>Confirmation of Animal Testing Status This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.</p>	Yes
<p>Confirmation of Pesticides Status This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.</p>	Yes
<p>Confirmation of Nanoparticles Status This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".</p>	Yes
<p>Packaging Status We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging</p>	Yes
<p>Confirmation of PAH status This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations</p>	Yes



Product Flow Chart



Material Safety Data Sheet

To download this product's material safety data sheet, please click [here](#) and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the on-screen instructions to request one.

The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.


Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Amended loss on drying from 0.25% to 0.35% to comply with supplier's specifications.	Yes
3	Particle size updated to Approximately 95% pass 325 mesh (44 micron). Country of origin/manufacture updated to include Europe and China. Allergen and additives table updated from 'free from' to 'does not contain'.	Yes
4	The shelf life was amended to match the supplier's specification, and a Pharmacopeia Standard was added.	Yes
5	Included approximate CA range in the body of the dossier. Amended MSDS. General reformat.	Yes
6	Added the following information: Vegan / Vegetarian Status, Tapped Density: Approx. 0.68g/ml, Production flow chart, Mercury (Hg): Max 0.1ppm. Changed the following information: Bulk density: Approx. 0.8g/ml to Approx. 0.46g/ml, Country of Origin and Country of Origin of the Manufacture from China, Europe to Italy, Pharmacopeia Standard Used from BP to EP.	Yes



7	<p>Changed Assay from CaCO₃: Min 99% to CaCO₃: Min 98%, appearance from Powder to Crystalline Powder, Sieve Analysis from Approximately 95% pass 325 mesh (44 micron) to Min 97% pass 325 mesh (44 micron), Loss on drying from Max 0.35% to Max 2.0% and Copper (Cu) Max 2ppm, Zinc (Zn) Max 5ppm, Chromium (Cr) Max 5ppm to Antimony (Sb), Copper (Cu), Chromium (Cr), Zinc (Zn), Barium (Ba), singly or in combination Max 100ppm</p> <p>Added Sulfate (SO₄) Max 0.2%, Acid Insoluble substances Max 0.2%, Magnesium and Alkali Salts Max 1%, Fluoride Max 50mg/kg, Chloride (Cl) Max 200ppm, organic volatile impurities, total heavy metals max 20ppm, Iron (Fe) Max 100ppm,</p> <p>Removed Ash, Sulphur and manganese.</p> <p>Updated Additives table for Additives / E Numbers for E170</p> <p>Added supplementary technical information</p>	Yes
8	<p>Amended product name from Calcium Carbonate Precipitated (39.6 - 40.0% Ca) to ground calcium carbonate (39.6 - 40.0% Ca), sieve analysis from Min 97% pass 325 mesh (44 micron) to approx. 80% pass 40 mesh, approx. 50% pass 60 mesh, approx. 30% pass 80 mesh.</p> <p>Removed pH and specific gravity specifications</p> <p>Added China to country of manufacture and origin</p>	Yes

Document Approval

Originator	Approver
 Alan Feetham QC Technician <small>04/01/2024 15:44</small>	 Ash Bayne Senior Quality Specialist <small>04/01/2024 15:23</small>

