



Head Office: The Old Grammar School, 3-7 Market Square, Amersham, Bucks. HP7 ODF
Tel: (44) 1494 434600 Email: foodnettechnical@foodnet.ltd.uk

Technical Specification		
Product: Butternut Squash Grilled Diced 20MM	Last Update: 31/01/2020	Product Code: BUT004

PACK SIZE 1 x 10kg;

ORIGIN: Poland / Spain

GENERAL The product shall be prepared from fresh sound raw material that is free from all toxic residues and taints and shall comply with all current UK/EU Food Legislation. The product is intended to be used as ingredient that is further processed and heat-treated before final consumption.

INGREDIENTS Butternut Squash 100% Declare as: Butternut Squash
(Cucurbita)

PROCESSING Butternut squash are harvested, trimmed, delivered to the factory. Each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, inspected, diced, pre-blanching, grilled frozen and filled into bulk palletainers. Frozen butternut squash is sampled and assessed against specification. The palletainers are then labelled and transferred to the cold store, where they are stored at -18°C until required for packing.

PACKING During packing, the diced butternut squash is inspected before weighing and filling into blue poly lined cartons. The cartons are Best Before and Production date coded, check weighed and metal detected, palletised and stretch wrapped before being returned to store at -18°C to await despatch to the UK at -18°C.

QUALITY CONTROL Checks are carried out on the following: -

Processing: -	Raw material Final Product Temperature
Packing: -	Metal detection Check weighing Final product physical defect levels Organolepsis Case quantity Case sealing Case coding and print quality

Doc Ref: PRO-SPE	Issue date: 31.01.2020	Issue No: 3	Prepared by: G. Oberto	Authorised by: Rhys Owen
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DEFECT TOLERANCES

<u>Per 1000g</u>	<u>Target</u>	<u>Maximum</u>
Foreign Material	Nil	Nil
EVM (excluding seeds)	Nil	2
Seeds	2	5
Clumps (>5cm)	2% w/w	5% w/w
Grilled marks	50%w/w	40%w/w (min)
<u>Per 250g</u>		
Blemishes (Major)	1	3
Blemishes (Minor)	5	10
Colour variant	5	10
Undersize <10mm	10% w/w	15% w/w
Oversize >30mm	2% w/w	5% w/w

DEFINITIONS OF DEFECTS

Foreign Material

This includes any material not derived from the butternut squash plant or defined as EVM, such as insects, pieces of insects, wood, glass, stones, metal, sand, grit, plastic or any other material which will render the product unacceptable.

Extraneous Vegetable Matter (EVM)

Vegetable material derived from the butternut squash plant other than the butternut squash flesh e.g. pieces of leaf, stalk etc. but not seeds. Vegetable material not from the butternut squash plant will be counted as foreign material.

Clumps

These are dices frozen together which cannot be separated without causing damage to the butternut squash. Clumps up to 5 cm long are not a defect.

Colour Variant

These are units which are completely green or white in colour.

Grilled Marks

This is units with grilled or roasted marks

Major Blemish

A major blemish is a discoloured area either as a single blemish or as an aggregate of blemishes covering an area greater than 6mm diameter.

Minor Blemish

A minor blemish has a discoloured area either as a single blemish or an aggregate of blemishes covering an area of less than 6mm diameter. Single blemishes below 2mm shall be ignored.

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Out of Size

These are dice that are either less than 10mm or greater than 30mm.

The below minimum numbers of samples should be inspected and average result to be out-of-spec.

Quantity Delivered (Kg)	Minimum samples to be taken (1Kg of product per each item)		
	10Kg Boxes	20Kg Bags	25Kg Bags
<1000	4	2	2
<2000	8	5	4
<5000	10	7	5
<10000	15	10	8
≤27000	20	15	12

ORGANOLEPSIS (Carried out on a thawed sample.)

COLOUR

Bright to mid orange colour with areas of black to brown char-grilled typical of butternut squash dice.

FLAVOUR

Slightly buttery, typical of grilled butternut squash.

TEXTURE

Soft to bite chews easily. Maybe slightly fibrous. Should not be tough or chewy.



Average sample

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MICROBIOLOGICAL

Organism	Target	Maximum
<i>T V C @ 30°C</i>	1×10^4	1×10^6
<i>Total Coliforms</i>	3×10^3	1×10^4
<i>E. coli</i>	Nil	1×10^2
<i>Listeria mono</i>	Absent in 25g	1×10^2
<i>Salmonella</i>	Absent in 25g	Absent in 25g

ANALYTICAL

N/A – un-blanching material.

WEIGHT CONTROL

The product shall be packed to minimum weight.

METAL DETECTION

All cartons shall be passed through a metal detector. The system shall be tested at least every 2 hours using ferrous, non-ferrous and stainless-steel test pieces.

BEST BEFORE DATE

The product shall be twenty-four months following the month of packing. Minimum BB date on delivery: 6 months.

TRACEABILITY INFO

Production date or Lot number printed on the label as well as customer order number and/or delivery date.

STORAGE CONDITIONS

Keep frozen at - 18°C at all times.

CARTON LINERS

Blue food grade polythene liner of a minimum thickness of 30µm.

CARTONS

Corrugated fibreboard of glued construction, no metal staples to be used. Shall be sealed using blue adhesive tape.

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NUTRITIONAL INFORMATION

This data conforms to the requirements of EC Council Directive 90/496/EEC

100g of uncooked Butternut Squash typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	45	USDA Nutrient Database Release 22
Energy - kJ	188	USDA Nutrient Database Release 22
Moisture	86.4g	USDA Nutrient Database Release 22
Carbohydrate	11.7g	USDA Nutrient Database Release 22
- as sugars	2.2g	USDA Nutrient Database Release 22
- as polyols	0.0g	USDA Nutrient Database Release 22
- as starch	3.4g	USDA Nutrient Database Release 22
Fat	0.1g	USDA Nutrient Database Release 22
- as saturates	0.02g	USDA Nutrient Database Release 22
- as mono unsaturates	0.07g	USDA Nutrient Database Release 22
- as poly unsaturates	0.04g	USDA Nutrient Database Release 22
Protein	1g	USDA Nutrient Database Release 22
Fibre	2.0g	USDA Nutrient Database Release 22
Sodium	4mg	USDA Nutrient Database Release 22
Vitamin A	139µg	USDA Nutrient Database Release 22
Vitamin B6	0.15mg	USDA Nutrient Database Release 22
Vitamin B12	0.0µg	USDA Nutrient Database Release 22
Vitamin C	21mg	USDA Nutrient Database Release 22
Vitamin D	0.0µg	USDA Nutrient Database Release 22
Vitamin E	1.44mg	USDA Nutrient Database Release 22
Thiamin	0.10mg	USDA Nutrient Database Release 22
Riboflavin	0.02mg	USDA Nutrient Database Release 22
Niacin	1.2mg	USDA Nutrient Database Release 22
Folic Acid	27µg	USDA Nutrient Database Release 22
Biotin	0.4µg	USDA Nutrient Database Release 22
Pantothenic Acid	0.40mg	USDA Nutrient Database Release 22
Calcium	48mg	USDA Nutrient Database Release 22
Phosphorus	33mg	USDA Nutrient Database Release 22
Iron	0.7mg	USDA Nutrient Database Release 22
Magnesium	34mg	USDA Nutrient Database Release 22
Zinc	0.15mg	USDA Nutrient Database Release 22
Iodine	-	USDA Nutrient Database Release 22
Potassium	352mg	USDA Nutrient Database Release 22

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GMO DECLARATION

Does the product, or any of its ingredients contain any genetically modified material (whether viable or not)? YES / NO

Is the product or any of its ingredients not substantially equivalent as a consequence of the use of genetic modification? YES / NO

Is the product or any of its ingredients produced from, but not containing any genetically modified material? YES / NO

Have genetically modified organisms been used as processing aids or additives used in connection with the production of the food or any of its ingredients? YES / NO

Have genetically modified organisms been used to produce processing aids or additives but where such genetically modified organisms are not present in the processing aid as used in connection with the production of the food or any of its ingredients? YES / NO

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

IRRADIATION POLICY

I confirm that the product supplied by Foodnet Limited under this specification has not undergone any irradiation treatment or process. I further confirm that no ingredient or processing aid used in conjunction with this product has undergone irradiation treatment.

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

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FOOD INTOLERANCE

Food Intolerance Data					
Does the material supplied contain any of the following? (NO) Absent, (YES) Present					
Allergen		NO / YES	Reason for presence if YES		
Milk & Milk Derivatives		NO			
Egg & Egg Derivatives		NO			
Animal Products (*)		NO			
Fish/Shellfish/Crustaceans/Molluscs		NO			
Cereals (**)		NO			
Gluten		NO			
Yeast/Yeast Extract		NO			
Soya/Soya Derivatives		NO			
Fruit & Fruit Derivatives		NO			
Beef & Beef Products		NO			
Pork & Pork Products		NO			
Lamb & Lamb Products		NO			
Poultry & Poultry Products		NO			
Legumes		NO			
Peanuts		NO			
Sulphite >10ppm		NO			
MSG		NO			
BHA / BHT		NO			
Benzoates		NO			
Glutamates		NO			
Azo & Coal Tar Dyes		NO			
Added Colour		NO			
Added Flavour		NO			
Preservatives		NO			
Antioxidants		NO			
Added Salt		NO			
Nuts/Nut Oils		NO			
Caffeine		NO			
Sesame Products		NO			
Garlic		NO			
Poppy Seeds		NO			
Mustard		NO			
Celery/Celery		NO			
Lupins		NO			
*Including any product derived from slaughtered animals, e.g. gelatine, rennet					
**Including wheat, corn, barley, rye, oats, etc.					
<u>Please be aware the manufacturing sites we supply this item from may handle allergens in production. Procedures are in place to prevent cross-contamination.</u>					
Is this product Suitable for:					
Vegans	Yes (Not certified)	Vegetarians	Yes	Organic	No
Halal	Yes (Not certified)	Kosher	Yes (Not certified)		

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FOOD ADDITIVES

E. Number	Name	In Which Ingredient	Function in Ingredient	Function in Final Product	% In Final Product
None					

COSHH Data

Treat as you would any frozen material i.e. if engaged in prolonged handling of the vegetables wear gloves.

Care should be used when lifting full cases of vegetables.

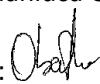
There are no other perceived COSHH implications regarding the use of frozen vegetables.

THE CONTENTS OF THIS SPECIFICATION ARE CONFIDENTIAL TO FOODNET LTD AND THE CUSTOMER, AND MAY NOT BE DISCLOSED TO ANY OTHER PARTY.

Signed on behalf of Foodnet Ltd:

Name: Gianluca Oberto

Job Title: Technical Manager

Signature: 

Date: 31st January 2020

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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PROCESS INFORMATION

PROCESS FLOW CHART*

*Note: this is a generic flow chart which does not refer to any specific production site.

DICED GRILLED BUTTERNUT SQUASH

Raw Material Receipt → QA Check



Washing



Cutting



Pre-blanching



Grilling



Inspection



Freezing → -18°C QA Check



Inspection



Weighing



Carton Fill → QA Check



Check Weigh



Metal Detection → QA Check



Palletise



Cold Storage → -18°C



Despatch → -18°C

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Issues & Amendments

Issue N°	Amend. N°	Date	Amendments	Compiled by
1	1	01/02/2016	New entry	G. Oberto
2	1	01/05/2017	Defect tolerances – minimum ref samples; Reviewed BB and Traceability info. Added Storage Conditions. Reviewed Food Intolerance table, Flow Chart and Amendment table.	G. Oberto
3	1	31/01/2020	3 Year update – general revision	G. Oberto

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