



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

Technical Specification		
<b>Product:</b> Potato Diced 20x20mm	<b>Last Update:</b> 31/01/2020	<b>Product Code:</b> POT006

**PACK SIZE** 1 x 10kg; 1 x 20kg;

**ORIGIN:** UK, Belgium, Poland

**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** Potato 100% Declare as: Potato  
(*Solanum tuberosum*)

**PROCESSING** Potatoes are delivered fresh to the factory, each load is sampled and assessed for foreign material and physical defects. The load is then cleaned, peeled, diced, blanched, frozen and filled into bulk palletainers. The frozen potatoes are 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 potatoes are 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

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## **DEFECT TOLERANCES**

<b><u>Per 1000g Sample</u></b>	<b><u>Target</u></b>	<b><u>Maximum</u></b>
Foreign Matter	Nil	Nil
Foreign Extraneous Vegetable Matter	Nil	Nil
Extraneous Vegetable Matter (number)	Nil	1
Major Blemish	3	6
Greening	2	5
Minor Blemish	10	15
Grey Discolouration	1	3
Broken Pieces	5	10
Out of Size	10% w/w	20% w/w

## **DEFINITIONS OF DEFECTS**

### **Foreign Material**

This includes any material not derived from the potato plant or defined as EVM. Examples of Foreign Matter include insects, pieces of insects, wood, glass, stones, metal, toxic berries, seed or flower heads, snails, slugs or any other material which will render the product unacceptable.

### **Foreign Extraneous Vegetable Matter**

This includes any vegetable matter not derived from the potato plant.

### **Extraneous Vegetable Matter**

This includes any harmless vegetable matter other than potato which is derived from the potato plant or harmless vegetable material such as pieces of leaves and leaf pieces.

### **Major Blemishes**

This includes potato dice which are discoloured or blemished by black, brown, or grey areas which are equivalent to a circle of between 6mm and 10mm in diameter, either as a single blemish or an aggregate of blemishes on the same strip.

### **Greening**

A dice with greening is one which is green for greater than an equivalent circle 6mm in diameter.

### **Minor Blemish**

This includes dice which are discoloured or blemished by black, brown, or grey areas which are equivalent to a circle of between 2mm and 6mm in diameter, either as a single blemish, or an aggregate of blemishes on the same dice.

### **Broken Pieces**

Pieces where more than 25% is missing

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### **Oversize**

Dice that are larger than one and a half times the declared size in any one or more dimensions.

### **Undersize**

Any dice which is less than 1/3 of the declared size in one or more dimensions.

*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 and uniform white or creamy white, typical of the product.  
**We recommend the potato to be cooked from frozen. The potato may turn grey/black if tempered/defrosted before use. Foodnet Ltd will not be held responsible if this occurs.**

#### **FLAVOUR**

Slightly weak characteristic potato flavour may have slight bitter or slight earthy notes, but no green flavours.

#### **TEXTURE**

Diced may be slightly soft or very slightly fibrous; there may be a slight amount of breakdown.



Average sample

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#### **MICROBIOLOGICAL**

Organism	Target	Maximum
<i>TVC @ 30°C</i>	$5 \times 10^5$	$1 \times 10^6$
<i>Total Coliforms</i>	$5 \times 10^2$	$1 \times 10^4$
<i>E. coli</i>	Nil	$1 \times 10^2$
<i>Listeria spp</i>	Absent in 25g	$1 \times 10^2$

**ANALYTICAL** Product shall be blanched to give a trace positive peroxidase reaction (guaiacol test) between 60 and 90 seconds.

**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.

**SACKS** Blue food grade polythene liner of a minimum thickness of 110µm.

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## **NUTRITIONAL INFORMATION**

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

100g of uncooked potato typically contains: -

Parameter	Value / 100g	Methodology
Energy - kcal	75	McCance & Widdowson 6 <sup>th</sup> Edition
Energy - kJ	318	McCance & Widdowson 6 <sup>th</sup> Edition
Moisture	79.0g	McCance & Widdowson 6 <sup>th</sup> Edition
Carbohydrate	17.2g	McCance & Widdowson 6 <sup>th</sup> Edition
- as sugars	0.6g	McCance & Widdowson 6 <sup>th</sup> Edition
- as polyols	0.0g	McCance & Widdowson 6 <sup>th</sup> Edition
- as starch	16.6g	McCance & Widdowson 6 <sup>th</sup> Edition
Fat	0.2g	McCance & Widdowson 6 <sup>th</sup> Edition
- as saturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as mono unsaturates	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
- as poly unsaturates	0.1g	McCance & Widdowson 6 <sup>th</sup> Edition
Protein	2.1g	McCance & Widdowson 6 <sup>th</sup> Edition
Fibre	1.3g	McCance & Widdowson 6 <sup>th</sup> Edition
Sodium	7mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin A	Trace	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>6</sub>	0.44mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin B <sub>12</sub>	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin C	11mg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin D	0.0µg	McCance & Widdowson 6 <sup>th</sup> Edition
Vitamin E	0.06mg	McCance & Widdowson 6 <sup>th</sup> Edition
Thiamin	0.21mg	McCance & Widdowson 6 <sup>th</sup> Edition
Riboflavin	0.02mg	McCance & Widdowson 6 <sup>th</sup> Edition
Niacin	0.6mg	McCance & Widdowson 6 <sup>th</sup> Edition
Folic Acid	35µg	McCance & Widdowson 6 <sup>th</sup> Edition
Biotin	0.3µg	McCance & Widdowson 6 <sup>th</sup> Edition
Pantothenic Acid	0.37mg	McCance & Widdowson 6 <sup>th</sup> Edition
Calcium	5mg	McCance & Widdowson 6 <sup>th</sup> Edition
Phosphorus	37mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iron	0.4mg	McCance & Widdowson 6 <sup>th</sup> Edition
Magnesium	17mg	McCance & Widdowson 6 <sup>th</sup> Edition
Zinc	66mg	McCance & Widdowson 6 <sup>th</sup> Edition
Iodine	3µg	McCance & Widdowson 6 <sup>th</sup> Edition
Potassium	60mg	McCance & Widdowson 6 <sup>th</sup> Edition

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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: 31<sup>st</sup> 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: 31<sup>st</sup> January 2020

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## **FOOD INTOLERANCE**

<b>Food Intolerance Data</b>				
Does the material supplied contain any of the following? (NO) Absent, (YES) Present				
<b>Allergen</b>	<b>NO / YES</b>	<b>Reason for presence if YES</b>		
Milk & Milk Derivatives	NO			
Egg & Egg Derivatives	NO			
Animal Products (*)	NO			
Fish/Shellfish/Crustations/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/Celeryiac	NO			
Lupins	NO			
*Including any product derived from slaughtered animals, e.g. gelatine, rennet				
**Including wheat, corn, barley, rye, oats, etc.				
<b><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></b>				
<b>Is this product Suitable for:</b>				
<b>Vegans</b>	Yes (Not certified)	<b>Vegetarians</b>	Yes	<b>Organic</b>
<b>Halal</b>	Yes (Not certified)	<b>Kosher</b>	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

### **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: 31<sup>st</sup> January 2020

Signed on behalf of the Customer:

Name:

Job Title:

Signature:

Date:

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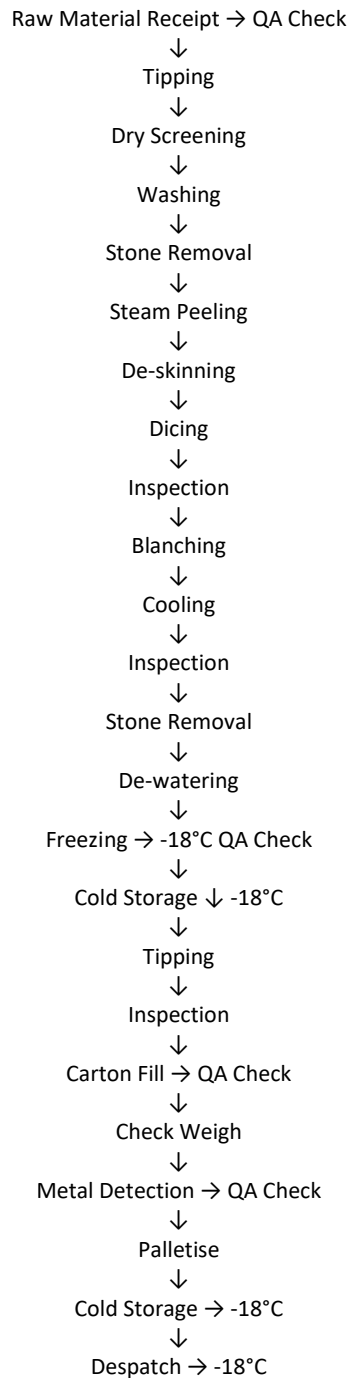
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## **PROCESS INFORMATION**

### **PROCESS FLOW CHART\***

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

#### **DICED POTATOES**



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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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