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: Potato Diced 10MM IQF	**Last Update:** 31/01/2023	**Product Code:** POT003

PACK SIZE 1 x 10kg; 1 x 15kg; 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 (minimum of +75°C for 30 seconds).

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 -23ºC to await despatch to the UK at -18ºC.

DEFECT TOLERANCES

Per 1000g Sample	**Target**	**Maximum**
Foreign Matter	Nil	Nil
Foreign Extraneous Vegetable Matter	Nil	Nil
Extraneous Vegetable Matter (number)	Nil	1
Clumps	10	10
Per 250g sample		
Gross Blemish	Nil	Nil
Major Blemish	Nil	1
Greening	2	5
Minor Blemish	2	5
Oversize (>15mm)	3% w/w	5% w/w
Undersize (<8mm)	5% w/w	10% w/w

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DEFINITIONS OF DEFECTS

Clumps
These are where three or more potatoes are frozen together which cannot be readily separated without causing damage to the potato.

Foreign Material
This includes any material not derived from the potato 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.

EVM
This includes any vegetable material other than the potato, which is derived from the potato plant.

Gross Blemish
A gross blemish is a black or brown, or decomposed area that covers an area greater than 25% of the surface area of the die.

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.

Greening
A die with greening is one which is green for greater than half its surface area.

Minor Blemish
A minor blemish is 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.

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

Undersize
Dice which is less than 5mm in one or more dimensions.

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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
T V C @ 30°C	5×10^5	1×10^6
Total Coliforms	5×10^2	1×10^4
E. coli	Nil	1×10^2
Listeria mono	Absent in 25g	1×10^2
Salmonella	Absent in 25g	Absent in 25g

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 6th Edition
Energy - kJ	318	McCance & Widdowson 6th Edition
Moisture	79.0g	McCance & Widdowson 6th Edition
Carbohydrate	17.2g	McCance & Widdowson 6th Edition
- as sugars	0.6g	McCance & Widdowson 6th Edition
- as polyols	0.0g	McCance & Widdowson 6th Edition
- as starch	16.6g	McCance & Widdowson 6th Edition
Fat	0.2g	McCance & Widdowson 6th Edition
- as saturates	Trace	McCance & Widdowson 6th Edition
- as mono unsaturates	Trace	McCance & Widdowson 6th Edition
- as poly unsaturates	0.1g	McCance & Widdowson 6th Edition
Protein	2.1g	McCance & Widdowson 6th Edition
Fibre	1.3g	McCance & Widdowson 6th Edition
Sodium	7mg	McCance & Widdowson 6th Edition
Vitamin A	Trace	McCance & Widdowson 6th Edition
Vitamin B_6	0.44mg	McCance & Widdowson 6th Edition
Vitamin B_{12}	0.0µg	McCance & Widdowson 6th Edition
Vitamin C	11mg	McCance & Widdowson 6th Edition
Vitamin D	0.0µg	McCance & Widdowson 6th Edition
Vitamin E	0.06mg	McCance & Widdowson 6th Edition
Thiamin	0.21mg	McCance & Widdowson 6th Edition
Riboflavin	0.02mg	McCance & Widdowson 6th Edition
Niacin	0.6mg	McCance & Widdowson 6th Edition
Folic Acid	35µg	McCance & Widdowson 6th Edition
Biotin	0.3µg	McCance & Widdowson 6th Edition
Pantothentic Acid	0.37mg	McCance & Widdowson 6th Edition
Calcium	5mg	McCance & Widdowson 6th Edition
Phosphorus	37mg	McCance & Widdowson 6th Edition
Iron	0.4mg	McCance & Widdowson 6th Edition
Magnesium	17mg	McCance & Widdowson 6th Edition
Zinc	66mg	McCance & Widdowson 6th Edition
Iodine	3µg	McCance & Widdowson 6th Edition
Potassium	60mg	McCance & Widdowson 6th Edition

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GMO DECLARATION

I confirm that this product is not genetically modified or produced from genetically modified organisms. No genetically modified organisms have been used as processing aids or additives. This product does not require specific GM labelling as per Regulation (EC) 1829/2003.

Name: Gianluca Oberto

Job Title: Technical Manager

Signature:

Date: 31st January 2023

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 2023

COSHH Data

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

Care should be used when lifting full cases of frozen fruits.

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

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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/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/Celeriac	NO	
Lupins	NO	

*Including any product derived from slaughtered animals, e.g. gelatine, rennet
**Including wheat, corn, barley, rye, oats, etc.

Please be aware the manufacturing sites we supply this item from may handle allergens in production. Procedures are in place to prevent cross-contamination.

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

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 2023

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 POTATOES

Raw Material Receipt → QA Check
↓
Tipping
↓
Dry Screening
↓
Washing
↓
Stone Removal
↓
Steam Peeling
↓
De-skinning
↓
Dicing
↓
Inspection
↓
Blanching
↓
Cooling
↓
Inspection
↓
Stone Removal
↓
De-watering
↓
Freezing → -18°C QA Check
↓
Cold Storage ↓ -18°C
↓
Tipping
↓
Inspection
↓
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
4	1	31/01/2023	3 Year update – general revision	F. Soares