

## Specification of commodities

THIS CATALOG SHOWS THE SPECIFICATIONS OF VARIOUS COMMODITIES, FOR BASIC INFORMATION ONLY. THE SPECIFICATION DEPENDS ON THE COUNTRY OF MANUFACTURE AND THE REGULATIONS IN THAT COUNTRY. IN GENERAL, THERE ARE SMALL DIFFERENCES DEPENDING ON WHETHER THE PRODUCT IS GMO, NON-GMO OR ORGANIC. IN OUR OFFERS, THE SPECIFICATION RELATED TO THE COUNTRY OF ORIGIN WILL BE STATED.

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## SOYBEAN GMO

### **SPECIFICATION:**

1. PROTEIN: 39% min.
2. MOISTURE: 12% max.
3. OIL: 18% min.
4. DRY MATTER: 89%
5. CRUDE PROTEIN: 48%
6. FAT: 1%
7. CRUDE FIBER: 3%
8. NEUTRAL
9. DETERGENT FIBER: 7,1%
10. ACID DETERGENT FIBER: 5,3%
11. CALCIUM: 0,2%
12. PHOSPHORUS: 0,65%
13. TOTAL DIGESTIBLE NUTRIENTS: 78%
14. NET ENERGY – lactation 81,1 mcal/100 lb MIN.VCV



## SOYBEAN NO GMO

### **SPECIFICATION:**

1. PROTEIN: 39% min.
2. MOISTURE: 12% max.
3. OIL: 18% min.
4. DRY MATTER: 89%
5. CRUDE PROTEIN: 48%
6. FAT: 1%
7. CRUDE FIBER: 3%
8. NEUTRAL
9. DETERGENT FIBER: 7,1%
10. ACID DETERGENT FIBER: 5,3%
11. CALCIUM: 0,2%
12. PHOSPHORUS: 0,65%
13. TOTAL DIGESTIBLE NUTRIENTS: 78%
14. NET ENERGY – lactation 81,1 mcal/100 lb MIN.VCV

## SOYBEAN MEAL 46%

### **SPECIFICATION:**

1. TEST WEIGHT: 54 MIN POUNDS PER BUSHEL
2. PROTEIN: (MIN. 46%)
3. MOISTURE CONTENT: 12.5 % (13.0 MAX.)
4. FOREIGN MATERIAL: MAX. 2.0 %
5. OIL CONTENT MIN: 18.5 %
6. KERNELS: 3 % MAX.
7. GROSS FIBER: 3.5 % (MAX.4.0%)
8. OTHER COLOR: 2 % MAX.
9. ASH: 7.0% MAX.
10. FAT: 0.5% MIN.
11. LYSINE: LYSINE 2.8% MIN.
12. UREASE ACTIVITY; 0.00 – 0.20% MAX. as measured by pH rise method
13. PROTEIN SOLUBILITY: 75% - 85%
14. AFLATOXIN: 20 ppb MAX.
15. OCHRATOXIN: 5 ppb MAX 16.DON: 2 ppb MAX.
17. FUMONISIN: 2 ppb MAX.
18. T-2: 50 ppb MAX.
19. ZEARALENONE: 125 ppb MAX.
20. TEMPERATURE: 90F MAX.
21. CHEMICALS AND INSECTS: no radiation, no virus, no insect parts, no poisonous matter. Product is suitable for human consumption or animal feed





## MAIZE GMO

### **SPECIFICATION:**

1. MOISTURE: 13% max
2. FOREIGN MATERIALS: 1,5% max
3. PURITY: 99,9%
4. CROP: Recent
5. SHIRVELLED 1%
6. TOXIC GRAINS: 2 – 3 (seeds in 100) max
7. PROTEIN: 8,0% min
8. TVN: 50mg / 100mg max
9. FIBER: 2,7% max
10. KERNELS DAMAGE: 5% max
11. TOTAL ASH 1,5% max
12. OTHER CERCAL GRAINS: 1 – 2% max
13. BULK DENSITY: 60 – 70 hecto liter min
14. TOTAL AFLATOXIN: 20,0 ppb max
15. CHEMICAL SEED (DATE FEROX): 2 seeds in 100grs max
16. TEST WEIGHT: 72kg / hl max
17. BROKEN: 3% 18. FAT CONTENT: 4,6%.
18. CROP YEAR: Recent

## MAIZE NO GMO

### **SPECIFICATION:**

1. MOISTURE: 13% max
2. FOREIGN MATERIALS: 1,5% max
3. PURITY: 99,9%
4. CROP: Recent
5. SHIRVELLED 1%
6. TOXIC GRAINS: 2 – 3 (seeds in 100) max
7. PROTEIN: 8,0% min
8. TVN: 50mg / 100mg max
9. FIBER: 2,7% max
10. KERNELS DAMAGE: 5% max
11. TOTAL ASH 1,5% max
12. OTHER CERCAL GRAINS: 1 – 2% max
13. BULK DENSITY: 60 – 70 hecto liter min
14. TOTAL AFLATOXIN: 20,0 ppb max
15. CHEMICAL SEED (DATE FEROX): 2 seeds in 100grs max
16. TEST WEIGHT: 72kg / hl max
17. BROKEN: 3% 18. FAT CONTENT: 4,6%.
18. CROP YEAR: Recent

## MAIZE ANIMAL FEED

### **SPECIFICATION:**

1. MOISTURE: 14% Max
2. FOREIGN MATTERS: 1.5% Max
3. DAMAGED GRANS: 5.0% Max
4. HEAT DAMAGED KERNELS: 0,5% Max
5. TOTAL DAMAGED KERNELS: 3.0% Max
6. TOXIC GRANS: 2-3 (Seeds In 100) Max
7. PROTEIN: 8.0% Max
8. FAT: 3.0% Max
9. FIBER: 2.7% Max
10. ADMIXTURE: 1.0% Max
11. TOTAL ASH: 1.5% Max
12. DISCOLORATION: 1.0% Max
13. IMPURITIES: 12-14% Max
14. TOTAL AFLATOXIN: 20.0 Ppb Max
15. T.V.N: 50.0 Max
16. E. COLI, SALMONELLA, INSECT: 0 Max
17. MOULD: 105.0 Max
18. RADIATION: None
19. CROP YEAR: Recent
20. DESOXINIVALENOL (VOMITOXIN): 5.0 Ppm Max

## MAIZE MEAL

### **SPECIFICATION:**

1. CRUDE PROTEIN :120G / KG MIN.
2. CRUDE FIBER: 80G / KG MÁX.
3. HUMIDITY: 130G / KG MÁX.
4. MINERAL MATTER: 50G / KG MÁX.
5. ETHEREAL EXTRACT: 5G / KG MÁX.
6. STARCH: 480G / KG MIN.
7. AFLATOXINS: 20PPB MÁX.



## WHITE RICE 5% BROKEN

### **SPECIFICATION:**

1. BROKEN GRAIN: 5% MÁX.
2. MOISTURE: 14% MÁX.
3. POLISHING GRADE: Double Silky Polished.
4. DAMAGED, SHRIVELED & YELLOW: 1.5% MÁX.
5. CHALKY KERNELS: 4% MÁX.
6. FOREIGN GRAINS: 0.5% MÁX.
7. FOREIGN MATTER: 0.5% MÁX.
8. UNDER-MILLED & RED-STRIPED: 1.5% MÁX.
9. PADDY GRAIN: 0.1% MÁX.
10. AVERAGE GRAIN LENGTH: 6.0 mm



## WHITE RICE 25% BROKEN

### **SPECIFICATION:**

1. BROKEN GRAIN: 25% MÁX
2. MOISTURE: 14% MÁX.
3. POLISHING GRADE: Double Silky Polished.
4. DAMAGED, SHRIVELED & YELLOW: 5% MÁX.
5. CHALKY KERNELS: 12% MÁX.
6. FOREIGN GRAINS: 3% MÁX.
7. FOREIGN MATTER: 1.4% MÁX.
8. UNDER-MILLED & RED-STRIPED: 4% MÁX.
9. PADDY GRAIN: MÁX 20pcs per Kg.
10. AVERAGE GRAIN LENGTH: 6.0 mm



## WHITE RICE 100% BROKEN

### **SPECIFICATION:**

1. BROKEN GRAIN: 100% MÁX
2. MOISTURE: 14% MÁX.
3. POLISHING GRADE: Double Silky Polished.
4. DAMAGED, SHRIVELED & YELLOW: 1.5% MÁX.
5. CHALKY KERNELS: 20% MÁX.
6. FOREIGN GRAINS: 4% MÁX.
7. FOREIGN MATTER: 2% MÁX.
8. UNDER-MILLED & RED-STRIPED: 4% MÁX.
9. PADDY GRAIN: MÁX 20pcs per Kg
10. AVERAGE GRAIN LENGTH: 6.0 mm

## WHITE RICE 7% BROKEN

### **SPECIFICATION:**

1. BROKEN GRAIN: 7% MÁX.
2. MOISTURE: 13% MÁX.
3. POLISHING GRADE: Silky.
4. DAMAGED, SHRIVELED & YELLOW: 4% MÁX.
5. CHALKY KERNELS: 2% MÁX.
6. FOREIGN GRAINS: 0.5% MÁX.
7. FOREIGN MATTER: 1.5% MÁX.
8. UNDER-MILLED & RED-STRIPED: 4% MÁX.
9. PADDY GRAIN: 2.5% MÁX.
10. AVERAGE GRAIN LENGTH: 5.0 mm

## CHICKPEAS

### **SPECIFICATION:**

1. STYLE: BEAN
2. PROCESSING TYPE: RAW
3. TYPE: DRIED
4. ADMIXTURE: 0.3% MAX
5. MOISTURE: 10% MAX
6. DRY PROCESS: AD
7. PURITY: 99.8%
8. COLOR: BROWN
9. FOREIGN MATTER: 0.2%
10. BREAKAGE RATE: ≤5%
11. SIZE: 12mm, 11mm, 10mm, 9mm, 8mm, 7mm



## BARLEY

### **SPECIFICATION:**

1. MOISTURE: MAX. 14.0 % ISO 712
2. PROTEIN: 9.0-12.8% ICC NO. 105
3. TEST WEIGHT: MIN. 65KG/HL ISO 7971-1
4. BROKEN KERNELS: MAX. 4.0%
5. FIRE BURNT: NIL
6. FROST: MAX. 2.0%
7. HEATED, ROTTED, SEVERELY MILDEWED: MAX. 0.2%
8. SPROUTED: MAX. 0.5%
9. ERGOT: MAX. 0.02%
10. EXCRETA: MAX. 0.01%
11. INSEPARABLE SEEDS: MAX. 0.2%
12. OTHER CEREAL: MAX. 2.0%
13. SCLEROTINIA: MAX. 0.02%
14. STONE: MAX. 0.02%
15. TOTAL FOREIGN MATERIAL: MAX. 2.0%



## LENTIL

### **SPECIFICATION:**

1. MOISTURE: MAX. 14.0 % M/M
2. OTHER COLOUR GRAINS: MAX. 5.0 %, M/M
3. INSECT DAMAGED GRAINS: MAX. 1.0 %, M/M
4. TOTAL DAMAGED GRAINS: MAX. 3.5 %, M/M
5. INORGANIC MATTER: MAX. 0.2 %, M/M
6. FILTH: MAX. 0.1 %, M/M
7. LIVE INSECTS: NIL
8. DEAD INSECT (WHOLE OR FRAGMENT): MAX. 10/KG
9. TOXIC - NOXIOUS SEEDS FREE
10. SIZE: AS PER CONTRACTUAL AGREEMENT
11. TOTAL AFLATOXIN: MAX. 20.0 PPB
12. TOTAL FOREIGN MATTER: MAX. 1.0 %, M/M



## COTTON

### **SPECIFICATION:**

1. Fiber length: 13 to 40 mm
2. Density: 1.55 g / cm<sup>3</sup>
3. Moisture absorption: very high
4. Color: White
5. Purity: contains impurities, caused by plant particles.
6. Heat conservation: satisfactory
7. Stretching: sufficient occupies first place in plant fibers
8. Elasticity and resistance to kneading: high.
9. Touch: Smooth
10. Combustion: fast with yellowish flame
11. Cellulose: 94.0%
12. Proteins: 1.3%
13. Ashes: 1.2%
14. Pectic substances: 0.9%
15. Malic, citric acids & etc: 0.8%
16. Wax: 0.6%
17. Total sugars: 0.5%

## COTTON SEED

### **SPECIFICATION:**

1. Dry matter: 92%
2. Total digestible nutrients: 96%
3. Net lactation energy: 2.22%
4. Crude protein: 23% - 25%
5. Non-degradable protein in the rumen: 32%
6. Crude fiber: 21%
7. Fiber in neutral detergent: 44%
8. Ethereal extract: 17% - 23%
9. Cacia: 0.16:
10. Phosphorus: 0.75%





## WHITE REFINED GRANULATED SUGAR

### 1. DESCRIPTION

White Refined Granulated Sugar is of vegetable origin, consisting primarily of sugarcane natural sucrose sweetener, obtained through the milling process, refining and granulation of dissolving crystal sugar, purification, evaporation, crystallization of the syrup, then centrifugation, drying, cooling, and screening of final product, free of genetically modified and allergenic organisms.

### 2. COMPOSITION

Basic composition of Refined sugar is sucrose with a minimum concentration of 99.6%, and a mineral salt concentration of 0.10%.

### 3. PHYSICOCHEMICAL ANALYSIS

Polarization 99,8 -- °Z Icumsa

Colour -- 60 UI

4. Humidity -- 0,04

Ash -- 0,02 %

Acid Insoluble Ash -- 1,5 %% Magnetizable

Particles -- 1 mg/Kg Sucrose 99,60 -- %

Dextran -- 100 ppm

Residual sulfite SO<sub>2</sub> -- 10 ppm

Insoluble residues -- 4 ppm

## ICUMSA 80

## REFINED SUGAR CANE "EXTRA"

### 1. DESCRIPTION

Intended and reasonably expected use product intended for consumption after addition and mixing in beverages and/or as an ingredient in food preparations.

### 2, PHYSICOCHEMICAL ANALYSIS

Polarization ° Z ≥ 99 ICUMSA

H<sub>2</sub>O Humidity (%w/w) ≤ 0.30 ICUMSA

Conductivity ash (w/w) ≤ 0.20 ICUMSA

ICUMSA Color (IU) – 420nm ≤ 50 ICUMSA

Residual sulfite SO<sub>2</sub> (mg/kg) ≤ 20 ICUMSA

Insoluble residue IR (Level) ≤ 4

Black spots (spots/100g) ≤ 10

Reducing sugar (%mm) ≤ 0.6 ICUMSA

Density (g/l) ≥ 710

pH 6 to 7.4

Magnetic particles (mg/kg) ≤ 1

### 3. PARAMETERS

Form - Microcrystalline solid

Flavor - Characteristically sweet

Odor - Gentle, green cane

## ICUMSA 100

## WHITE CRYSTAL T1

### 1. DESCRIPTION

White Crystal sugar is of vegetable origin, consisting primarily of sugarcane natural sucrose sweetener, with an appearance of solid with well-defined crystals, a white color.

### 2. COMPOSITION

Basic composition of Crystal sugar is sucrose with a minimum concentration of 99.6%, and a mineral salt concentration of 0.10%.

### 3. PHYSICOCHEMICAL ANALYSIS

Polarization 99,6 -- °Z

Icumsa -- 100 UI

Humidity -- 0,07 %

Ash -- 0,10 %

Acid Insoluble Ash -- 1,5 %

Magnetizable Particles -- 5 mg/Kg

Reducing Sugar -- >0,05 %

Sucrose 99,60 -- %

Dextran -- >100 ppm

Sulfite -- 20 ppm

Black Spot 20

Insoluble residues -- 8 ppm



# SUGAR

## ICUMSA 150

### WHITE CRYSTAL T2

#### 1. DESCRIPTION

White Crystal sugar is of vegetable origin, consisting primarily of sugarcane natural sucrose sweetener, with an appearance of solid with well-defined crystals, a white color.

#### 2. COMPOSITION

Basic composition of Crystal sugar is sucrose with a minimum concentration of 99.6%, a mineral salt concentration of 0.10%.

#### 3. PHYSICOCHEMICAL ANALYSIS

Polarization 99,6 -- °Z

Icumsa -- 150 UI

Humidity -- 0,07 %

Ash -- 0,10 %

Acid Insoluble Ash -- 1,5 %

Magnetizable Particles -- 5 mg/Kg

Reducing Sugar -- >0,05 %

Sucrose 99,60 -- %

Dextran -- >100 ppm

Sulfite -- 20 ppm

Black Spot 20 N° (+)

Insoluble residues -- 8 ppm

## ICUMSA 600/1200

### LIGHT BROWN CRYSTAL SUGAR

#### 1. DESCRIPTION

Light Brown crystal sugar is of vegetable origin, consisting primarily of sugarcane natural sucrose sweetener, with an appearance of solid well-defined crystals, light Brown color.

Obtained by direct manufacture in the Plants from sugar cane, after clarification of sugarcane juice by physical-chemical treatments, followed by evaporation, crystallization, centrifugation, and drying

#### 2. PHYSICOCHEMICAL ANALYSIS

Polarization 99 -- °Z

Icumsa 600 - 1.200 UI

Humidity -- 0,15 %

Ash -- 0,15 %

Acid Insoluble Ash -- 1,5 %

Magnetizable Particles -- 15 mg/Kg

Sulfite -- 10 ppm

Arsenic -- 0,10 ppm

Lead -- 0,10 ppm

Insoluble residues -- 1,5 ppm

Alpha enzyme residual amylase – Nil/Black Spot 20

N° (+)

Insoluble residues -- 8 ppm

## VHP

### RAW SUGAR VHP

#### 1. DESCRIPTION

VHP raw sugar is of vegetable origin, consisting primarily of sugarcane natural sucrose sweetener, Sugar obtained by direct manufacture in the Plants from sugar cane, after clarification of sugarcane juice by physical-chemical treatments, followed by evaporation, crystallization, centrifugation, and drying. It is presented in the form of uniform solid Brown crystals.

#### 2. COMPOSITION

Basic composition of VHP raw sugar is sucrose with a minimum concentration of 99.%,

#### 3. PHYSICOCHEMICAL ANALYSIS

Polarization 99.4 °Z

Icumsa 2.500 UI

Humidity 0,20%

Ash 0,15%

Moisture 0,15%

Solubility 95%

Magnetizable Particles 10 mg/Kg

Reducing Sugar 0,05%

Sucrose 99%

Sulfur dioxide 99 mg/Kg

Granulometry 0,6 medium size mm





# EDIBLE OILS

## CORN OIL

### SPECIFICATION:

#### 1. DESCRIPTION

This product is obtained through of refining process for corn, via appropriate technology.

#### 2. COMPOSITION

Refined Corn oil (Genetically modified from *Bacillus thuringiensis* and/or *straptomyces viridochromogenes* acid citric antioxidant and TBHQ antioxidant terc- butilhidroquinona) **Gluten Free.**

Ingredients	Specification (weight %)
Refined Corn Oil	100%
Acid Citric Antioxidant	200ppm
TBHQ Antioxidant	200ppm

#### 3. PHYSICAL CHEMYCAL

Characteristics	Specification
Soaps (ppm sodium oleate)	Max 10.0
Free Acidity (% of oleic acid)	Max 0.10
Moisture and Volatile Matter (%)	Max 0.10
Peroxide Value (mEq/kg)	Max 2.50
Insoluble Impurities (%)	Max 0.05
Density 20°C (g/mL)	0.9187
Fatty Acid Profile	According IN 49/06

## CANOLA OIL

### SPECIFICATION:

#### 1. DESCRIPTION

This product is obtained through of refining process for Canola , via appropriate technology.

#### 2. COMPOSITION

Refined Canola oil antioxidant and TBHQ

Ingredients	Specification (weight %)
Refined canola oil	100 %
TBHQ antioxidant	200 ppm
Citric acid antioxidant	200 ppm

#### 3. PHYSICAL CHEMYCAL

Characteristics	Specification
Soaps (ppm sodium oleate)	Max 10.0
Free Acidity (% of oleic acid)	Max 0.10
Moisture and Volatile Matter (%)	Max 0.10
Peroxide Value (mEq/kg)	Max 2.50
Insoluble Impurities (%)	Max 0.05
Density 20°C (g/mL)	0.9187
Fatty Acid Profile	According IN 49/06

## SUNFLOWER OIL

### SPECIFICATION:

#### 1. DESCRIPTION

This product is obtained through of refining process for Sunflower, via appropriate technology.

#### 2. COMPOSITION

Refined Sunflower oil, TBHQ antioxidant, acid citric antioxidant **Gluten Free.**

Ingredients	Specification (weight %)
Refined Sunflower Oil	100%
TBHQ Antioxidant	200ppm
Acid Citric Antioxidant	200ppm

#### 3. PHYSICAL CHEMYCAL

Characteristics	Specification
Soaps (ppm sodium oleate)	Max 10.0
Free Acidity (% of oleic acid)	Max 0.10
Moisture and Volatile Matter (%)	Max 0.10
Peroxide Value (mEq/kg)	Max 2.50
Insoluble Impurities (%)	Max 0.05
Density 20°C (g/mL)	0.9187
Fatty Acid Profile	According IN 49/06

## SOYBEAN OIL

### SPECIFICATION:

#### 1. DESCRIPTION

This product is obtained through of refining process for soybeans, via appropriate technology.

#### 2. COMPOSITION

Refined Soybean oil (*Genetically modified from agrobacterium sp*) Acid citric antioxidant and TBHQ antioxidant terc- butilhidroquinona) **Gluten Free.**

Ingredients	Specification (weight %)
Refined Soybean Oil	100%
TBHQ Antioxidant	200ppm
Citric Acid Antioxidant	200ppm

#### 3. PHYSICAL CHEMYCAL

Characteristics	Specification
Soaps (ppm sodium oleate)	Max 10.0
Free Acidity (% of oleic acid)	Max 0.10
Moisture and Volatile Matter (%)	Max 0.10
Peroxide Value (mEq/kg)	Max 2.50
Insoluble Impurities (%)	Max 0.05
Smoke Point (°C)	Min 210
Density (20°C) (g/mL)	0.9187
Fatty Acid Profile	According IN 49/06

## RAPESEED OIL

Rapeseed oil is obtained from the seeds of rapeseed (*Brassica napus*) a shrub that is grown in Europe, Canada, China and the USA. There is an oil content of 30-40% in the seed. The refined oil is yellow-brown and shiny. It is oil with a low viscosity and high smoothness.

### CRUDE RAPESEED OIL

Appearance Light Dust Smell And Taste  
Characteristic To Rape Seed Oil  
Colored Number Mg, Iodine, Max 90  
Density (d20/20): 0,910 - 0,920  
Iodin value: 94-120  
Saponification value: 168-181  
Unsaponifiable matter: 20g/kg max  
Flash Point, C, Min 230  
Moisture and volatile matter: 0,25% max  
Insoluble impurity: 0,2% max  
Acid value (KOH): 4,0 mg/g max  
Peroxide value: 7,5 mmol/kg max  
Residual solvent: 100 mg/kg max  
PRODUCT NON GMO



### REFINED RAPESEED OIL

A virgin liquid oil derived from a specific variety of rapeseed grown in New Zealand, particularly high in Oleic Acid and low in Alpha Linolenic Acid. The oil is virgin and pressed under a cold pressing process. Oil temperature is a maximum of

### CHEMICAL AND PHYSICAL CHARACTERISTICS

Criteria	Units	Limits	Methods
Density at 20°C	* g/mL	0.914 - 0.920	ISO 6883
Refractive index	* n <sub>40 D</sub>	1.465 - 1.467	ISO 6320
Saponification value	* mg KOH/ g	182 - 193	AOCS Cd 3-25
Iodine value	* g I <sub>2</sub> / 100 g	105 -126	ISO 3961
Moisture	% g/100 g	≤ 0.2	ISO 662
Free fatty acid as oleic acid	% m/m	≤ 0.1	ISO 660
Alcalinity (soaps)	mg/kg	≤ 5	ISO 10539
Peroxyde value (at plant departure)	meq O <sub>2</sub> / kg	≤ 1	
Phosphorus content	* mg/kg	≤ 5	ICP
Unsaponifiable matter	* g/kg	≤ 20	ISO 3596



## PACKING IN PET BOTTLE



## FLEXI TANK OF 22-23 MT



## PRIVATE LABEL PACKING

We can offer you packaging under your trade mark (Private Label), according to your design, in the language of your market. Packaging in cartons of 12, 6 and 4 bottles, where the cartons will have your trademarks with your company's logo.

