

GRAIN TRADE @ SHIPPING d.o.o.
Republika Hrvatska, 21223 Okrug Gornji, KAŠTIL 5, **tel. +**
38 097 847 77 93 tel. +49 176 258 96 000
Grainetradeshipping@gmail.com



UCO pure vegetable - for technical use only - not for feed and food products

No.	Characteristic	Method of research	Result
	1	2	3
1	Mass fraction of moisture,%	DSTU 4603:2006	0,5
2	Acid FFA,%	DSTU 4350:2004	3,0
3	Mass fraction of non-fatty impurities,%	DSTU 5063:2008	0,5
4	Phosphor ppm max	DSTU 4492:2017	300



RAPSEED OIL

No.	Characteristic	Result
	Total moisture and volatility	0,2%-0,25%
1	Color number, mg iodine	90-not more 100
2	Acid number, mg KOH/g	Not more 10%
3	Mass fraction of phosphorus-containing substances in terms of steorolecithin	till 300 ppm
4	Peroxide number, 1/2 Mmol/kg	4,2-6 Mmol/kg
	Mass fraction of non-fat impurities	2,8%-5,0%

RAPSEED MEAL

No.	Characteristic	Result
1	Moisture content	9,7%
2	Mass fraction of fat and extracted substances	2,7%
3	Mass fraction of crude protein in terms of ADS	37,3%
4	Mass fraction of crude fiber in a non-fact product in terms of ADS	15,6%
5	Mass fraction of residual solvent	0,08%

RAPSEED CAKE

No.	Characteristic	Result
1	Moisture content	6,58%
2	Fat(ADM)	8,7%
3	Mass fraction of crude protein in terms of ADM	32,13%
4	Energy value	1, 15-1,17%
5	Cellulose	12,23%

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Unrefined Premium Virgin Cold-Pressed

No.	Characteristic	Result
1	Color value, mg Iodine	10
2	Acid value, mg KOH/g	0.6...1.0
3	Moisture and volatiles content, % by weight	0,03..0,10
4	Phosphorous content, % by weight	0,05..0,10
5	Peroxide value, 1/2 O mmol/kg	1..4,0
6	Non-fatty matter content, % by weight	none

Sunflower Oil Refined Deodorized Winterized

No.	Characteristic	Result
1	Color value, mg Iodine	1...5 (not more than 10)
2	Acid value, mg KOH/g	0.08...0.15 (not more than 0.25)
3	Moisture and volatiles content, % by weight	0,02..0,04 (not more than 0.10)
4	Phosphorous content, % by weight	none
5	Peroxide value, 1/2 O mmol/kg	0.04..2 (not more than 2.0)
6	Non-fatty matter content, % by weight	none

Refined Deodorized Chilled Sunflower Oil (bottled), packaging

Volume, L	Netto weight, g	pcs per 40` container (25,5MT gross)	pcs per box trailer car (22MT gross)
0,50	460	50328	34560
0,815	750	31560	19200
0,88	810	29325	21600
1,00	920	25785	21600
1,68	1545	15312	11520



1,74	1600	14832	11520
2,00	1840	13098	9600
2,90	2670	9006	6144
3,00	2760	8676	6144
3,695	3400	7132	5120
4,80	4415	5196	4224
5,00	4600	5240	4224
5,00 sq	4600	5240	4224
9,50	8740	2770	1920

Unrefined Cold-pressed Sunflower Oil (bottled), packaging

0,50	460	50328	34560
0,815	750	31560	19200
0,88	810	29325	21600
1,00	920	25785	21600
1,74	1600	14832	11520
2,00	1840	13098	9600
2,90	2670	9006	6144
3,00	2760	8676	6144
5,00	4600	5196	4224



or safety
membrane cap
with 108g PET
preform



Package PET Bottle-2,9L

Net weight 2670 g -1,5%

Per carton 6 pcs.

Package PET Bottle-5L

Net weight 4600 g - 1.5 %

Per carton 3/4 pcs.

Package PET Bottle-9,5L

Net weight 8740 g - 1,5%

Per carton 2 pcs.

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Quality Certificate of Sunflower seed DSTU 7011:2009

Characteristic	Result
Moisture, %	6,2%
Oil impurity%	5%
Garbage impurity	spoiled seeds-0,5 mineral impurity-0,5 castor seeds- Not allowed
Mass fraction of oil in terms of dry matter,%	43,8%
Mass fraction of oleic acid in oil,%, not less than	Мин.15/19,05
The acid number of the oil, mg KOH / g, not more than	5,0
Infection with grain pests	Not allowed, except for tick infestation not higher than II degree

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Sunflower oil, non-refined, 1-st grade in bulk

	Sunflower oil	Non-refined oil,1-st grade		
	DSTU 1129-2013			
No	Parameters	Unit	Basis parameters/ Базові параметри 1 grade	Fact parameters/ Фактичні параметри 1 сорт
1	Colour value	mg iodine	Not more 25	14
2	Acid value:	mg KOH/g	Not more 4,00	2,8
3	Peroxide number:	1/2O mmole/kg	Not more 10,00	7,0
4	Moisture and volatile substances	%	Not more 0,20	0,20
5	Phosphorus- containing substances	% recalculated as per stearooleocitine	Not more 0,60	0,16
6	Flash point	°C	Non-norm	225



QUALITY CERTIFICATE OF SUNFLOWER MEAL

Product name	Sunflower meal
Code/ Код	EU 2.19.3
View	Non-granulated toasted or granulated
Composition of products	Sunflower seeds according to DSTU 4694/
Appearance	Homogeneous free-flowing mass/-flowing mass
Color, at 20C	Different shades Grey
Odor	Typical for sunflower meal with ther foreign odor (no mustiness, mold, burnt)
Impurities and foreign matter/ Додатки та сторонні речовини:	Foreign matter
Glass	Not detected
Packaging material	Not detected
Wood	Not detected
Plasti	Not detected
Sand	Not detected
Stones	Not detected
Metal	Not detected

CHEMICAL CHARACTERISTICS

Indikator name	Standard
Moisture and volatiles content,% by weight (not more than)	11,0
10% HCl-insoluble ash at bone-dry humidity (BDH), % by weight (not more than)	1,0

NUTRITIONAL CHARACTERISTICS

Indikator name	Standard
Raw protein/ no less %	35,0
Raw protein at BDH, no less %	39,0
Raw cellulose on dry basis, % no more than	20
Raw cellulose at BDH on dry basis, % no more than	23,0

Soya bean oil, non-refined, 1-st grade in bulk

Soybean oil		Non-refined oil	
DSTU 4534:2006			
No	Parameters	Unit	Fact parameters
1	Colour value	mg iodine	50
2	Acid value:	mg KOH/g	1,85
3	Peroxide number:	$1/2\text{O}$ mmole/kg	0,04
4	Moisture and volatile substances	%	0,26
5	Phosphorus-containing substances	% recalculated as per stearooleocitine	0,3
6	Mass fraction of low-fat impurities, no more	%	0,02
7	Smell and taste	Smell and taste inherent in soybean oil, without foreign odor, taste, bitterness	

Soya bean oil crude degummed (NON-GMO) in bulk

No	Parameters	Fact parameters
1	Nsoluble impurities	max. 0.1%
2	Water and volatile substances	max. 0.3%
3	Phosphorus	max. 200 ppm
4	Acid value	max. 2.0 mg KOH/g
5	Peroxide value	max. 4.0 $1/2\text{O}$ mmol/kg
6	Color (AOCS RY scale)	yellow — max. 50
7	Flash point (extraction oil)	not lower than 225°C
8	GMO content	EU standards
9	GMP + FSA	assured
10	Shelf life	6 months from the date of production



QUALITY CERTIFICATE OF SUNFLOWER CAKE

Product name	Sunflower cake
View	Non-granulated toasted
Composition of products	Sunflower seeds according to ISO 6496:2005, ISO 5983:2003, ISO 6865:2004

CHEMICAL CHARACTERISTICS

Indikator name	<i>Standard</i>
Moisture and volatiles content,% by weight (not more than)	5,50

NUTRITIONAL CHARACTERISTICS

Raw protein/ no less %	34,39
Crude fat, %	5,64
Crude fiber, %	16,9
Peroxide number, % I 2	0,63
Acid value of fat, mg KOH/g	3,85



QUALITY CERTIFICATE OF SOYA BEAN CAKE

Product name	Soya bean cake
View	Non-granulated toasted

CHEMICAL CHARACTERISTICS

Indikator name	<i>Standard</i>
Moisture and volatiles content,% by weight (not more than)	8,50

NUTRITIONAL CHARACTERISTICS

Protein/ no less %	not less than 51% in terms of a.d.m.
Fat, %	no more than 2.5% in terms of a.d.m
Crude fiber, %	no more than 7% in terms of a.s.v.

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QUALITY CERTIFICATE OF SOYA BEAN MEAL

Product name

Soya bean meal

View

Non-granulated toasted /granulated

CHEMICAL CHARACTERISTICS

Indikator name

Standard

Moisture and volatiles content,% by weight (not more than)

no more than 11%

NUTRITIONAL CHARACTERISTICS

Protein/ no less %

49.8% on dry matter protein

Fat, %

no more than 2.0% on a.d.m

Crude fiber, %

no more than 7.0% on a.d.m

Color

light yellow

Urease activity:

no more than 0.2 (change in pH in 30 minutes)



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QUALITY CERTIFICATE OF BRAN FODDER WHEAT

Product name	Bran fodder wheat
View	dry loose without hard lumps
CHEMICAL CHARACTERISTICS	
Color	yellow with a grayish tint
Moisture and volatiles content,% by weight (not more than)	14%
Crude protein/ no less %	14%
Mass fraction of ash, insoluble 10%, NSI, in terms of absolutely dry matter	4,3%
Metal-magnetic impurities up to 2 mm per 1 kg of bran, mg	not detected
Charged and contaminated with pests	not detected
Contents of toxic elements, radionuclides, pesticides, mycotoxins	not detected



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PELLETS, FUEL GRANULE (from sunflower husk)

No.	Characteristic	Result
1	Diameter	8mm
2	Length	5-40mm
3	Density	0.5 - 0.7 kg/dm ³
4	Moisture	10.0%-12%
5	Ashiness	3.0%
6	Heat transfer	17.0 MJ/kg





CERTIFICATE OF QUALITY BIOETHANOL

Customer:

Report number:

Report data:

Sample taken:

Number car/tank:

Total volume CBM at 20°C: m3

No	Name of indicators, units of measurement	Norm according to State Standard of Ukraine 7166:2010	Norm according to EN 15376:2014	Actual results	Test method
1	Appearance and color	clear, colorless or light yellow liquid	clear, colorless	complies	
2	Density at temperatures (20±0,1%) C,Kg/m3. within the range	787 to789	-	789,9	
3	Volume fraction of water, oh, max	0,2	0,300	0,190	
4	Involatile material Content, mg /100m1, max	100	10	4,5+/-0,06285	
5	Volume fraction of ethyl alcohol (organic oxvsen- containing compounds), o/o, min	98,3	98,7	99,952	
6	Volume fraction of methanol , oh, max	1,0	1,0	0,002	
7	Mass fraction of acids in terms of acetic acid' %,max	0,007	0,007	<0,003(0,002)	
8	Mass concentration of higher alcohols C3-C5g/dm3,max	12,0	2,0	0,004	
9	Mass fraction of sulfur, mg / kg, max	10,0	10,0	<5 (1,7)	
10	Mass concentration of phosphorus, l mg / dm3, ma	0,5	0,15	0,13 (absent)	
11	Mass fraction of copper, mg / kg, ma	0,1	0,1	0,05 (absent)	
12	Inorganic chloride content, mg/kg, max	20	1,5	0,6+/-0,13	
13	Electrical conductivity, mS/cm, max	-	2,5	0,45+/-0,01	
14	Sulfate content, mg/kg, max	-	3	0,15+/-0,074	
15	Volume fraction of gasoline (carbhhhydrates) %	1,0-1,5	-	1,0	

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CERTIFICATE OF QUALITY
MERACRYL® MMA -- stab. with 30 ppm DMBP Steeldrum

Property	Test method	Unit	Value	Min.	Max
PURITY MMA	M2-7	%	99,9	99,9	
ACID CONTENT	M4	%	0,0015		0,0050
WATER CONTENT	M3	%	0,002		0,010
COLOR	M5	APHA	5,0		5,0
STABILIZATION, DMBP	M27	ppm	30,0	27,0	33,0