

## COMMERCIAL OFFER

*According to the content of humus, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black soil..*

"Systems" LLC offers organic fertilizer leonardite for:

1. use in the cultivation of organic agricultural products;
2. use in ordinary agriculture;
3. production of NPK organic-mineral fertilizers. The characteristics of leonardite are given below:

<b>Indicator</b>	<b>Value</b>
Moisture (working condition), %	30.00 - 45.00
Ash, % (no more)	12.00
Acidity, pH	6.50
Solubility, % (not less)	96.00
Humic acids, % (including fulvic acids)	65.00 - 86.00

### **Elemental composition of leonardite:**

N, %	C, %	S, %	H, %	O, %
0.51	61.13	3.64	5.56	29.16

Leonardite indicators may vary depending on external factors (weather conditions along the route, different seasons). The change of these indicators will be within the permissible norms, and they will be reflected in the contract.

### **Advantages of using Leonardite:**

- Ecologically clean, organic fertilizer, growth stimulator is ready for direct use. The possibility of direct use of leonardite as a fertilizer, without additional processing with a consumption of 300 kg to 800 kg of leonardite per 1 ha of land.
- Increase in yield up to 40%, without the use of additional fertilizers.
- Creation of organo-mineral fertilizers with any mineral fertilizer (NPK, saltpeter, nitroammophoska, etc.). Leonard will be a 100% stimulator of mineral fertilizers. This will give a synergistic effect and the absence of "salinization of the soil" and lower the cost of the final product.
- Restoration and creation of soil fertility. In terms of humus content, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black earth. When

applying 1 ton of leonardite per hectare, the humus content increases by 1% in one year.

- Creation of land substrates with any filler (sand, clay, etc.). Leonardite will act as the main component and from unsuitable materials, when mixed, an analogue of chernozem will be obtained.
- Guaranteed and uninterrupted supply of leonardite. The price is lower than the imported analogue.
- Reclamation of the land cover after the extraction of minerals, which are mined in an open way.
- Restoration of soil fertility. Reclamation and detoxification of agricultural lands.
- Reclamation of salt marsh soils, as well as detoxification of lands polluted by man's man-made activities.

### **Increase in yield after using leonardite:**

Name of culture	Indicator, %
Wheat	13 - 25
Tomato	20 - 30
Barley	15 - 18
Apples	8 - 20
Corn	30
Grapes	25 - 30
Potatoes and carrots	25 - 40
Sugar beet	25 - 40
Garlic	30 - 60
Cucumber	34 - 38
Grass	100

### **Leonardite consumption rate, depending on the culture and soil condition:**






Name of the crop	Consumption rate, kg/1 ha
Wheat	400 - 500
Tomato	600 - 800
Barley	300 - 400
Apples	0.50 - 50, depending on age
Corn	500 - 700
Grapes	400 - 500
Potatoes and carrots	500 - 600
Sugar beet	300 - 400
Garlic	300 - 500

**Manufacturer is UKRAINE**  
**MOKROKALIHIR COAL INTERSECTION**



## Instructions for use of the product organic fertilizer Leonardite

**GRAIN BODY:** *In terms of humus content, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black earth.*

Plant Type	Application rate (per 1 hectare)	Application period
 Industrial crops (rapeseed, soybeans, cereals, etc.)	1.5 – 2 tons (for weak ground 2-4 tons) *	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 Cereals (wheat, barley, rye, oats, etc.)	1.5 – 2 tons (for weak ground 2-4 tons)	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 Sunflower	3 – 5 tons (for weak ground 4-6 tons)	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 Cotton, corn, sugar cane	3 – 5 tons (for weak ground 4-6 tons)	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 Rice, lentils, buckwheat, millet	1.5 – 2 tons (for weak ground 2-4 tons)	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *






## VEGETABLE CROPS: *In terms of humus content, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black earth.*

Plant Type	Application rate (per 1 hectare)	Application period
 <p>Vegetables in greenhouses (peppers, tomatoes, zucchini, eggplant, carrots, etc.)</p>	100 kg per 10 acres (for weak ground 150 kg) *	Apply to the ground and mix with the soil (every 4 years) For weak soil every 3 years *
 <p>Vegetables in open ground (cucumber, beets, eggplant, tomatoes, onions, radishes, etc.)</p>	1.5 – 2 tons (for weak ground 2-4 tons) *	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 <p>Potato (potatos, Jerusalem artichoke)</p>	1.5 – 2 tons (for weak ground 2-4 tons) *	Apply to the soil and plow (once every 4-5 years) For weak soil every 3-4 years *
 <p>Fruit trees (apricot, peach, plum, apple, pear, pomegranate, cherry plum, etc.)</p>	35 kg per pit (for weak ground 45 kg)	If the tree hole diameter is 0.7 meters, pour 35 kg into the hole, mix with soil, and fill with water
 <p>Stone fruit (fruit trees) (cherries, peaches, plums, apricots, lychees, mangoes, etc.)</p>	35 kg per pit (for weak ground 45 kg)	If the tree hole diameter is 0.7 meters, pour 35 kg into the hole, mix with soil, and fill with water
 <p>Citrus trees (orange, tangerine, lemon, grapefruit, avocado, olive, guava, etc.)</p>	35 kg per pit (for weak ground 45 kg)	If the tree hole diameter is 0.7 meters, pour 35 kg into the hole, mix with soil, and fill with water

## TREES AND BUSHES: *In terms of humus content, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black earth.*

Plant Type	Application rate (per 1 hectare)	Application period
 <p>Grape</p>	3-4 kg per 1 hole (for weak ground 5 kg)	When planting vines, pour 3-4 kg into the hole, mix with soil, and fill with water.
 <p>Blueberries, black and red currants, gooseberries, blackberries</p>	2.5 kg per 1 hole (for weak ground 3 kg)	When planting, pour 2.5 kg into the hole, mix with soil, and fill with water.
 <p>Strawberry</p>	150 kg per 1 hundred square meters (for weak ground 250 kg)	Before planting, mix with soil (every 2-3 years)
 <p>Nuts</p>	35 kg per pit (for weak ground 45 kg)	If the tree hole diameter is 0.7 meters, pour 35 kg into the hole, mix with soil, and fill with water
 <p>Tobacco</p>	2 – 3 tons (for weak ground 4-5 tons)	Apply to the soil and plow (once every 4 years) For weak ground every 3 years
 <p>Tea, spices</p>	4 tons (for weak ground 6 tons)	Apply to the soil and plow (once every 7 years)

## TECHNICAL CULTURES: *In terms of humus content, 1 ton of Leonardite is equal to 40 tons of humus or 200 tons of black earth.*

Plant Type	Application rate (per 1 hectare)	Application period
 Decorative plants (in pots)	for 1 liter pot 250 grams	Add to pot and mix with flower growing material
 Decorative plants (in open ground)	3-4 kg per 1 hole (for weak ground 5 kg)	When planting a plant in a hole measuring 50-70 cm, pour fertilizer, mix with soil, fill with water and plant.
 Trees, shrubs, thuja, Brabant, boxwood, juniper	In pots: for 1 liter pot 250 grams Open ground: 3-4 kg per 1 hole	When planting a plant, pour fertilizer, mix with soil, add water and plant.
 Commercial and landscape lawn		Apply to the soil and mix (only 1 time)
 Hydroseeding	2.5 – 3 tons (for weak ground 4-5 tons)	Apply to the soil and mix (only 1 time)

For orders, contact LLC "Systems"

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\*\*\* Icons for containers: polyethylene sign, umbrella, sun over a roof, man near a garbage can, hook sign.



Sincerely, Systems LLC