



ECO-LEONARDITE – organic fertiliser

origin Ukraine

05/2019

1. PRODUCT DESCRIPTION

With a production of about 30,000 to 50,000 MT per month, we can offer Ukrainian LEONARDITE in size distribution varying from 0-4 mm to 0-300 mm.

2. PRODUCT SPECIFICATIONS & CERTIFICATE OF ANALYSIS

Sample provided for testing: 3 kg.

Test results (issued on 3/04/2018)

*** TEST RESULTS**

Parameters, unit of measurement	Test results	Error of measuring
pH	5.6	± 0.30
Moisture, %	31.0	± 3.1
Dry matter, %	69.0	± 6.9
Organic matter (carbon), %	33.25	± 1.80
Ash, %	33.5	± 5.03
Total mass fraction of nitrogen, % on dry matter	1.5	± 0.10
The total yield of humic acids (⁽¹⁾ Ct), %	66.6	± 9.99
Free humic acid (⁽¹⁾ Cha), %	37.0	± 5.55
Fulvic acids (⁽¹⁾ Cfa), %	29.6	± 4.44

*** TEST METHODS**

- Determination of pH – DSTY 7882:2015 Peat and products of its processing for agriculture. Methods of determination of exchange and active acidity.
- Determination of moisture content and dry matter – DSTY ISO 11465-2001: Soil quality. Determination of dry matter and water content on a mass basis gravimetric method.
- Determination of organic matter content – DSTY 8454:2015 Organic fertilisers. Organic determination method.
- Determination of ash content – DSTY 7942:2015 Soil quality. Determination of ash in peat and peat oil.
- Determination of the total mass fraction of total nitrogen content – DSTY 7911:2015 Manure and organic-minerals fertilisers. Method of total DSTY mass part and mass part ammonium nitrogen determination.
- Determination of humic and fulvic acids – DSTY 7083:2009 Manure and organic-minerals fertilisers. Methods of humus acids determination and – PM.SMD 5.4-06 Internal Method: Determination of humic and fulvic acids in peat, organic and organo-mineral fertilisers.

¹ Ct – Carbon total humic acids

Cha – Carbon free humic acids

Cfa – Carbon fulvic acid

*** Average characteristics of Leonardite**

Test	From	To
Moisture (operation), %	30.0	45.0
Ash (dry basis), %	9.2	17.6
Acidity pH, %	6.5	7.5
Bitumens (crude montan wax), (minimum), %	15.0	16.0
Humic acid, %	65.2	79.6
Organic matter, %	65.0	83.4

*** Elemental composition of Leonardite**

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



**PRODUCT INFO
& DATASHEET**

3. BENEFITS OF USING ECO-LEONARDITE FOR THE PRODUCTION OF FERTILISERS:

- Eco-friendly, organic fertilisers, growth stimulator ready for direct use.
- Increase productivity up to 40% without extra use of fertilisers.
- High ecological manufactured fertilisers – fertilisers from leonardite do not contain nitric acid nor orthophosphate.
- The ability of direct Eco-Leonardite use as a fertiliser without further processing at a rate from 200 kg on 1 hectare.
- Guaranteed and continuous supply of Eco-Leonardite with competitive prices (production capacity 30,000-50,000 MT/month).
- Reclamation of land cover after the mining operations that are mined by open method.
- Restoration of soil fertility.
- Remediation and detoxification of agricultural lands.
- Reclamation of saline soils, as well as the detoxification of lands contaminated by anthropogenic human activities.

4. PACKING & PRICES

We are pleased to offer without engagement/subject our final confirmation, as per our general terms of sale (see our website: www.sico.be) and as per particular terms hereafter, as follows:

- a) 1 x 20ft container with 15.6 MT, packed in 12 big bags of 1.3 MT (BB with 2 or 4 loops on Europallets)
or
- b) 1 x 20ft container with 18 MT, packed in 12 big bags of 1.5 MT (BB with 2 or 4 loops on Europallets)
or
- c) 1 x 40ft container with 27 MT, packed in 20 big bags of 1.35 MT (BB with 2 or 4 loops on Europallets)

Indicative price FOB Odessa for trial order of 2 containers = 190.- USD/MT. If only one container = 195.- USD/MT.

Please select from above 3 options and indicate port of destination to offer CFR or CIF your port.

This product is presently exported to 24 countries worldwide.

5. SHELF LIFE

2 years if stored properly. Eco-Leonardite can be stocked under the open sky.

6. QUALITY

Our Eco-Leonardite is approved for the use in organic agriculture according to the IACB Equivalent European Union Organic Production & Processing Standard for Third Countries to the Regulations EU No. 834/2007 and No. 889/2008.