



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

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.



**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.