

Test Report No: 115138/02

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Client:
**SUSTAINABLE WORLD ENERGY SL
C / PROVENCALS 10
ES-8019 BARCELONA**
Test object:
Wood Pellet

Date of Receipt: 2015-03-09
 Container: Plastic bag
 Designation: Wood Pellet
 Order from: 2015-03-09
 Compiler: Knut. H.Jensseter Willand

| Property | Unit | Result | Test Method |
|-------------------------------|---------|--------|---------------------------|
| Moisture | | | DIN 51718 |
| as-received | % (m/m) | 8,4 | |
| as-determined | % (m/m) | 4,4 | |
| Ash content at 550°C | | | DIN 51719 |
| as-received | % (m/m) | 4,56 | |
| as-determined | % (m/m) | 4,76 | |
| dry | % (m/m) | 4,97 | |
| Fixed carbon | | | DIN 51720 |
| as-received | % (m/m) | 15,3 | |
| as-determined | % (m/m) | 16,0 | |
| dry | % (m/m) | 16,7 | |
| Volatile matter | | | DIN 51720 |
| as-received | % (m/m) | 71,8 | |
| as-determined | % (m/m) | 74,9 | |
| dry | % (m/m) | 78,3 | |
| Calorific value, gross | | | DIN 51900 |
| as-received | MJ/kg | 17,88 | |
| as-determined | MJ/kg | 18,66 | |
| dry | MJ/kg | 19,51 | |
| Calorific value, net | | | DIN 51900 |
| as-received | MJ/kg | 16,63 | |
| as-determined | MJ/kg | 17,46 | |
| dry | MJ/kg | 18,36 | |
| Elementary analysis, Carbon | | | DIN EN 15104 ¹ |
| as-received | % (m/m) | 44,17 | |
| as-determined | % (m/m) | 46,10 | |
| dry | % (m/m) | 48,20 | |
| Elementary analysis, Hydrogen | | | DIN EN 15104 ¹ |
| as-received | % (m/m) | 5,74 | |
| as-determined | % (m/m) | 5,50 | |
| dry | % (m/m) | 5,24 | |
| Elementary analysis, Nitrogen | | | DIN EN 15104 ¹ |
| as-received | % (m/m) | 0,26 | |
| as-determined | % (m/m) | 0,27 | |
| dry | % (m/m) | 0,28 | |

Remark:

The test results are only valid for the analysed sample. The utilisation of the report for advertising purposes, or reference to it in publications, requires the permission of (Schweiz) AG. Details of the analyses (norms, SOPs), as well as limits of detection and standard deviations can be obtained from Intertek (Schweiz) AG. Files, including reports, are retained for ten years at Intertek (Schweiz) AG. The raw data is held at (Schweiz) AG for ten years. The sample is held at Intertek (Schweiz) AG for at least one month after the report has been completed.

¹ Subcontractor, ² Method not accredited

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| Property | Unit | Result | Test Method |
|----------------------|---------|--------|---------------------------------|
| Sulfur | | | DIN EN 15289 ¹ |
| as-received | % (m/m) | 0,04 | |
| as-determined | % (m/m) | 0,042 | |
| dry | % (m/m) | 0,044 | |
| Cl Chlorine (dry) | % (m/m) | 0,063 | EN 15289 ¹ |
| Hg Mercury (dry) | mg/kg | <0,05 | EN 1483 ¹ |
| Trace Elements (dry) | | | DIN EN ISO 17294-2 ¹ |
| As Arsen | mg/kg | <0,8 | |
| Al Aluminum | mg/kg | 570 | |
| Co Cobalt | mg/kg | <1 | |
| Ba Barium | mg/kg | <2 | |
| Ca Calcium | mg/kg | 6570 | |
| Cd Cadmium | mg/kg | <0,2 | |
| Cr Chromium | mg/kg | 13,0 | |
| Cu Copper | mg/kg | 3,0 | |
| Fe Iron | mg/kg | 370 | |
| Mg Magnesium | mg/kg | 1040 | |
| Mn Manganese | mg/kg | 24 | |
| Mo Molybdenum | mg/kg | <2 | |
| Na Sodium | mg/kg | 160 | |
| Ni Nickel | mg/kg | <1 | |
| P Phosphorus | mg/kg | 130 | |
| Pb Lead | mg/kg | <2 | |
| Si Silicon | mg/kg | 9020 | |
| V Vanadium | mg/kg | <1 | |
| Zn Zinc | mg/kg | 6 | |
| K Potassium | mg/kg | 3800 | |

Schlieren, 26.03.2015

Project Leader:

A. Bergthold


 STS-Nr. 0452
 Februar 2006

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