

TEST PROTOCOL Nr. 474937

Test Protocol issue Date 2023-06-30
Customer (name, address) MB Granpeleta, Dariaus ir Girėno g. 43A-2, LT-82139 Radviliškis
Test Object: Solid Biofuel - wood pellets
Test Method: Determination of moisture, ash content and the gross and net calorific value at constant volume according to Standards LST EN ISO 18134-2:2017, LST EN ISO 18134-3:2016, LST EN ISO 18122:2023; LST EN ISO 18125:2017 (except 8.3;8.4;8.6;9.7.2;10.3.3;10.3.4 and appendix A;B;D3;D4)

Test Results:

Sample ID	Test started	Test finished
GRANPELETA_2023-06-27	2023-06-28 09:04:49	2023-06-30 07:11:19

Test	Result	Extended uncertainty
Total Moisture Mar, %	6.107	0.078 ±%
Ash content on dry basis Ad,	0.218	0.092 ±%
Net calorific value at constant volume of dry fuel, qv,net,d, MJ/kg	19.375	0.072 ±MJkg
Gross calorific value at constant volume of dry fuel, qv,gr,d, MJ/kg	20.65	0.06 ±MJkg
Net calorific value at constant volume as recieved, qv,net,m, MJ/kg	18.051	0.078 ±MJkg
Gross calorific value at constant volume as recieved, qv,gr,m, MJ/kg	-	- ±MJkg

The reported expanded uncertainty is calculated by multiplying the cumulative standard uncertainty by the coverage multiplier k=2, which corresponds to a 95% confidence level for a normal distribution. Standard uncertainty calculated according to ILAC-G17:01/2021.

Conditions: :

- a) The values used according to the Annex G of the Standard LST EN ISO 18125:2017: Hdaf, % 6.2 , S, % 0.02
 b) Ambient Temperature: 24 °C Relative Humidity RH:: 23 %
 c) Package of this sample was received intact, no sample loss was suffered during transportation
 d) Sample registration date: 2023-06-27 10:00:00 e) Date of sample delivery to laboratory: 2023-06-27 12:26:06

Equipment:

The name, type and identification No. of measuring devices and equipment	Calibration Certificate No	Expanded uncertainty U (coverage factor k=2)/measurement uncertainty	Test
Balance ML 104/01 № IK06026-2	KL22-52	U= ±0,00017 g	Ash content
Balance ME 3002 № IK05181	KL22-57	U= ±0,012 g	Total moisture
Balance ML104/01 № IK05658	KL22-56	U= ±0,00019 g	Calorific value, moisture in general analysis sample
Drying Oven LSIK-B2/VC222 № IK06971-8	KL003336	U= ±0,67 °C	Moisture in general analysis sample
Furnace LV150H1CN № IK06969	KL005516	U= ±2,5 °C	Ash content
Automatic Shiling burette № R.5219.5	21/2737	U= ±0,0011 ml	Calorific value
Automatic calorimeter Parr 6400 № IK06965 and PPM benzoic acid	123119 (SRM 39j)	±0,1%; 6318,4±2,9 cal/g	Calorific value

Tyrimą atliko: Ieva Sinkevičiūtė

Tvirtina: Vitalijus Gylus


