

This certificate attests that for the production of

Wood Pellets Quality class A1

produced by

SIA „GAUJAS KOKS“

LV-2136 Vangazi, Incukalna district, 24/35 Gaujas Street

at the site

LV-5202 Jekabpils, 93A Zilanu Street

an initial inspection was carried out and a continuous surveillance is performed regarding the implementation of the requirements of

ENplus®
Quality Certification Scheme For Wood Pellets



by BEA Institut für Bioenergie in the respective current version and that the product meets quality class A1.

For the validity of this certificate see www.holzforchung.at.

ENplus® ID: LV 017

Certificate number: HFA-ENplus-0239

Date of first issue: 20.05.2019

Date of issue: 20.05.2019

Valid until: 19.05.2022

In cooperation with:



DI Andreas Haider
Authorised signatory



Dr. Manfred Brandstätter
Head of Certification Body

For the production of wood pellets produced by

Gaujas koks SIA, LATVIA

certified according to **ENplus® A1** with the ID number: **LV017**

we confirm the following test results analysed within the inspection 2019 valid until the inspection in 2020.

Sample 2019110	Standard	unit	Pellets	Limit values according ENplus®	
				Class A1	Class A2
mechanical durability**	ISO 17831-1	[%]	98,6	≥ 98,0	≥ 97,5
bulk density (ar)**	ISO 17828	[kg/m³]	650	750≥BD≥600	750≥BD≥600
moisture content**	ISO 18134-2	[%]	7,5	≤ 10	≤ 10
ash content 550°C(db)**	ISO 18122	[%]	0,3	≤ 0,7	≤ 1,2
net calorific value (ar)**	ISO 18125	[MJ/kg]	17,6	≥ 16,5	≥ 16,5
net calorific value (ar)	ISO 18125	[kWh/kg]	4,9	≥ 4,6	≥ 4,6
net calorific value (db)	ISO 18125	[MJ/kg]	19,2	-	-
net calorific value (db)	ISO 18125	[kWh/kg]	5,3	-	-
gross calorific value (ar)	ISO 18125	[MJ/kg]	19,0	-	-
gross calorific value (ar)	ISO 18125	[kWh/kg]	5,3	-	-
Sulphur content (db)	ISO 16994	[%]	0,007	≤ 0,04	≤ 0,05
Chlorine content (db)	ISO 16994	[%]	< 0,005	≤ 0,02	≤ 0,02
Nitrogen content (db)	ISO 16948	[%]	0,10	≤ 0,30	≤ 0,50
pressing aid / additives	-	[%]	0	≤ 1,8	≤ 1,8
dimensions**					
fines (< 3,15 mm)	ISO 18846	[%]	0,3	≤ 0,5* / ≤ 1	≤ 0,5* / ≤ 1
length (3,15 ≤ L ≤ 40 mm)	ISO 17829	[%]	99,7	> 98,5* / >98	> 98,5* / >98
length (40 ≤ L ≤ 45 mm)	ISO 17829	[%]	0	≤ 1	≤ 1
length (> 45 mm)	ISO 17829	[amount]	0	0	0
diameter	ISO 17829	[mm]	6	6 or 8 ± 1	6 or 8 ± 1
heavy metals					
Chromium (db)	ISO 16968	[mg/kg]	< 1	≤ 10	≤ 10
Copper (db)	ISO 16968	[mg/kg]	0,76	≤ 10	≤ 10
Zinc (db)	ISO 16968	[mg/kg]	8,5	≤ 100	≤ 100
Lead (db)	ISO 16968	[mg/kg]	< 0,5	≤ 10	≤ 10
Mercury (db)	ISO 16968	[mg/kg]	< 0,075	≤ 0,1	≤ 0,1
Cadmium (db)	ISO 16968	[mg/kg]	< 0,1	≤ 0,5	≤ 0,5
Arsenic (db)	ISO 16968	[mg/kg]	< 0,5	≤ 1	≤ 1
Nickel (db)	ISO 16968	[mg/kg]	< 1	≤ 10	≤ 10
ash melting behaviour (ash preparation at 815°C)**					
shrinking temperature SST	CEN/TS 15370-1	[°C]	1210	-	-
deformation temperature DT	CEN/TS 15370-1	[°C]	1580	≥ 1200	≥ 1100
hemisphere temperature HT	CEN/TS 15370-1	[°C]	> 1600	-	-
flow temperature FT	CEN/TS 15370-1	[°C]	> 1600	-	-

* for bags or sealed big bags, ar...as received, db...dry basis