





CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel

Loading Port :

Cargo (as declared) :

Quantity (as per SGS D/S)

Commenced Loading

Completed Loading

Our Principal : KURZEMES GRANULAS SIA

SGS Reference No. : LV.20.23.0291

THIS IS TO REPORT that in accordance with instructions received from our Principal, to perform sampling and analysis of the above-mentioned shipment, we hereby report the following:

Metric Tonnes

VENTSPILS, LATVIA 1 GRADE 100% PELLETS

<u>SAMPLING</u>: MANUAL SAMPLING - SGS, performed as per EN ISO 18135*. Sampling occurred from freshly exposed surface while the material was in motion, on a systematic known-mass intervals basis, with fixed-increment mass. Manual Sampling method was agreed to with the SGS Principal, as sampling by more reliable methods that provide probability samples was not possible or was not selected by the SGS Principal. The suitability of this sampling method is defined by the sampling standard.

<u>TEMPERATURE MEASUREMENTS:</u> The actual temperature of the Material checking was performed on the Stockpile in the warehouse and on the surface of the cargo in the vessel's hold throughout the loading. The temperature of the Cargo was found to be from +14.4°C up to 33.5°C.

<u>ANALYSIS</u>: Reported results are based on a calculated weighted average of 2 Sub-lot(s) analysis results using weights and qualities on the same moisture basis, and composite analysis results where applicable. Analysis performed in accordance with EN ISO Standards, except as noted.

We report the following weighted average:

<u>Parameters</u>	<u>Methods</u>	<u>Units</u>	<u>As-Received</u> <u>basis</u>	<u>Dry</u> <u>basis</u>
Nitrogen	LVS EN ISO 16948	% mass	0.11	0.12
Oxygen (excludes O in moisture)	LVS EN ISO 16993	% mass	39.91	42.87
Hydrogen (excludes H in moisture)	LVS EN ISO 16948	% mass	5.75	6.18
Total Carbon	LVS EN ISO 16948	% mass	46.80	50.27





SGS Secured document



Certificate No: 202300019345

F181501_20001758_001 Page No: 2/3

<u>Parameters</u>	Methods	<u>Units</u>	As-Received	Dry
	ivietilous		<u>basis</u>	<u>basis</u>
Total Moisture	LVS EN ISO 18134-2	% mass	6.90	70.0
Ash	LVS EN ISO 18122	% mass	0.52	0.56
Volatile Matter	LVS EN ISO 18123	% mass	79.13	85.00
Total Sulphur	LVS EN ISO 16994	% mass	0.01	0.01
Gross CV	LVS EN ISO 18125	kcal/kg	4,539	4,875
Gross CV	LVS EN ISO 18125	kJ/kg	19,004	20,413
Gross CV	LVS EN ISO 18125	MWh/ton	5.28	5.67
Net CV (constant volume)	LVS EN ISO 18125	kcal/kg	4,218	4.572
Net CV (constant volume)	LVS EN ISO 18125	kJ/kg	17,660	19,140
Net CV (constant volume)	LVS EN ISO 18125	MWh/ton	4.91	5.32
Net CV (constant pressure)	LVS EN ISO 18125	kcal/kg	4,200	4,554
Net CV (constant pressure)	LVS EN ISO 18125	kJ/kg	17,583	19,068
Net CV (constant pressure)	LVS EN ISO 18125	MWh/ton	4.88	5.30

We report the following on the Composite sample:

<u>Parameters</u>	<u>Units</u>	Results	<u>Methods</u>
Bulk Density	kg/m ³	660	LVS EN ISO 17828
Mechanical Durability	%	98.5	LVS EN ISO 17831-1

Ash Melting Behaviour

<u>Units</u>	Oxidizing Atmosphere	Method
°C	1470	ISO 21404
°C	> 1540	ISO 21404
°C	> 1540	ISO 21404
°C	> 1540	ISO 21404
	°C °C °C	Onits Atmosphere °C 1470 °C > 1540 °C > 1540

Particle Size Distribution (Dust Content)

Sieves	<u>Units</u>	Results	Method
Over than 3.15 ¹ mm	% mass	98.59	
Between 2.8 - 3.15 ¹ mm	% mass	0.00	
Between 2.0 - 2.8 mm	% mass	0.12	
Between 1.4 - 2.0 mm	% mass	0.30	LVS EN ISO 17827-2
Between 1.0 - 1.4 mm	% mass	0.27	LV3 EN 130 17021-2
Between 0.5 - 1.0 mm	% mass	0.38	
Between 0.25 - 0.5 mm	% mass	0.20	
Less than 0.25 mm	% mass	0.14	

SGS Latvija Ltd.

SGS LATVIJA LTD Katrīnas iela 5 LV 1045, Riga, Latvia P: + 371 67 32 61 63 F: + 371 67 32 61 64

This document is issued by the Company under its General Conditions of Service (https://www.sgs.com/en/terms-and-conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdictional issues defined therein.

therein. This document is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

The authenticity of this document may be verified by scanning the QR code above.



SGS Secured document

Certificate No: 202300019345





F181501_20001758_001 Page No: 3 / 3

Particle Size Distribution (Pellets Component Size):

Sieves	<u>Units</u>	Results	Method
Over than 4.01 mm	% mass	0.22	O Million
Between 3.15 ¹ - 4.0 ¹ mm	% mass	0.77	GSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS
Between 2.8 - 3.15 ¹ mm	% mass	0.10	George de Central Contral de Cont
Between 2.0 - 2.8 mm	% mass	1.98	109030361 H- JSGSGAGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS
Between 1.4 - 2.0 mm	% mass	8.85	LVS EN ISO 17830
Between 1.0 - 1.4 mm	% mass	17.75	
Between 0.5 - 1.0 mm	% mass	32.04	
Between 0.25 - 0.5 mm	% mass	21.02	
Less than 0.25 mm	% mass	17.27	
60574095	GSOSGSOSGSOSSSSSSSSSSSSSSSSSSSSSSSSSSS		

¹Round holes

This certificate reflects our findings at time and place of our intervention only and does not relieve the parties from their contractual responsibilities.

Signed and dated in Riga 29 August 2023

For and on behalf of SGS Latvija Ltd **Dmitry Kulak**





SGS Latvija Ltd. SGS LATVIJA LTD Katrīnas iela 5 LV 1045, Riga, Latvia P: + 371 67 32 61 63 F: + 371 67 32 61 64

This document is issued by the Company under its General Conditions of Service (https://www.sgs.com/en/terms-and-conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdictional issues defined therein.

therein. This document is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

The authenticity of this document may be verified by scanning the QR code above.