Record No. 1/0120/2025

Sample Name: Wood pellets
Name of Producer:: Przedsiębiorstwo Produkcyjno-Handlowe DANKROS sp. z o.o.
EN*plus*® ID/ Sample No.: PL023; 05.12.2024-A1-6mm-DANKROS

Origin:		1. Woody biomass				
Traded form:		Wood pellets				
Classification of origin according to EN ISO 17225-1:2021		1.2.1 Chemically untreated by-products and residues from the wood processing industry				
Parameter	**Unit**	**Value**	**Uncertainty [±] [1]**	**Threshold values acc. to EN*plus*® ST 1001:2022**		
				A1	**A2**	**B**
Diameter	mm	6.0	0.1	6 ± 1 / 8 ± 1		
Length	mm	15.9	6.7	3.15 ≤ L ≤ 40		
Moisture	w-% $_{ar}$	5.4	0.2	≤ 10		
Ash	w-% $_{d}$	0.33	0.03	≤ 0.7	≤ 1.2	≤ 2.0
Mechanical durability	w-% $_{ar}$	98.2	0.1	≥ 98.0	≥ 97.5	
Fines (< 3.15 mm)	w-% $_{ar}$	0.34	0.04	≤ 1.0 (≤ 0.5%) [2]		
Coarse fines (3.15 < CPF < 5.6 mm)	w-% $_{ar}$	0.09	0.01	Value to be stated		
Gross calorific value	MJ/kg $_{d}$	20.68	0.07	-		
Net calorific value	MJ/kg $_{ar}$ kWh/kg $_{ar}$	18.08 5.02	0.10 0.03	≥ 16.5 ≥ 4.6		
Bulk density	kg/m^3 $_{ar}$	640	8	600 ≤ BD ≤ 750		
Particle density	g/cm^3$_{ar}$	1.28	0.04	Value to be stated		

Carbon	w-% $_d$	51.2	0.3	-		
Hydrogen	w-% $_d$	6.58	0.25	-		
Nitrogen	w-% $_d$	0.13	0.01	≤ 0.3	≤ 0.5	≤ 1.0
Sulfur	w-% $_d$	0.006	0.001	≤ 0.04		
Chlorine	w-% $_d$	0.019	0.002	≤ 0.02		≤ 0.03
Ash shrinkage temperature SST [3, 4]	°C	1370		Value to be stated		
Ash deformation temperature DT [3, 4]	°C	> 1500	-	≥ 1200		≥ 1100
Ash hemisphere temperature HT [3, 4]	°C	> 1500	-	Value to be stated		
Ash flow temperature FT [3, 4]	°C	> 1500	-	Value to be stated		
Arsenic	mg/kg $_d$	< 0.1	-	≤ 1		
Cadmium	mg/kg $_d$	0.30	0.02	≤ 0.5		
Chromium	mg/kg $_d$	2.38	0.21	≤ 10		
Copper	mg/kg $_d$	3.46	0.33	≤ 10		
Lead	mg/kg $_d$	< 0.5	-	≤ 10		
Mercury	mg/kg $_d$	0.0026	0.0003	≤ 0.1		
Nickel	mg/kg $_d$	< 0.5	-	≤ 10		
Zinc	mg/kg $_d$	9.31	0.35	≤ 100		

$_d$ dry $_{ar}$ as received
1. the expanded uncertainty was determined for coverage factor k = 2 and 95% confidence level
2. at factory gate, at the end of production or when loading truck for deliveries to end-users (< 0.5% when filling pellet bags or sealed big bags)
3. characteristic ash melting temperature determined in an oxidizing atmosphere
4. ash received at 815°C

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