

For the production of wood pellets produced by

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

we confirm the following test results analysed within the inspection 2022 valid until the inspection in 2023.

Sample 2022062	Standard	unit	Pellets	Limit values according ENplus®	
				Class A1	Class A2
mechanical durability**	ISO 17831-1:2015	[%]	98,6	≥ 98,0	≥ 97,5
bulk density (ar)**	ISO 17828:2015	[kg/m³]	680	750≥BD≥600	750≥BD≥600
moisture content**	ISO 18134-2:2017	[%]	5,5	≤ 10	≤ 10
ash content 550°C(db)**	ISO 18122:2015	[%]	0,3	≤ 0,7	≤ 1,2
net calorific value (ar)**	ISO 18125:2017	[MJ/kg]	18,0	≥ 16,5	≥ 16,5
net calorific value (ar)	ISO 18125:2017	[kWh/kg]	5,0	≥ 4,6	≥ 4,6
net calorific value (db)	ISO 18125:2017	[MJ/kg]	19,2	-	-
net calorific value (db)	ISO 18125:2017	[kWh/kg]	5,3	-	-
gross calorific value (ar)	ISO 18125:2017	[MJ/kg]	19,4	-	-
gross calorific value (ar)	ISO 18125:2017	[kWh/kg]	5,4	-	-
Sulphur content (db)**	ISO 16994:2016	[%]	< 0,001	≤ 0,04	≤ 0,05
Chlorine content (db)	ISO 16994:2016***	[%]	< 0,005	≤ 0,02	≤ 0,02
Nitrogen content (db)**	ISO 16948:2015	[%]	0,09	≤ 0,30	≤ 0,50
pressing aid / additives	-	[%]	0	≤ 1,8	≤ 1,8
dimensions**					
fines (< 3,15 mm)	ISO 18846:2016	[%]	0,3	≤ 0,5* / ≤ 1,0	≤ 0,5* / ≤ 1,0
length (3,15 ≤ L ≤ 40 mm)	ISO 17829:2015	[%]	99,7	> 98,5* / > 98	> 98,5* / > 98
length (40 ≤ L ≤ 45 mm)	ISO 17829:2015	[%]	0	≤ 1	≤ 1
length (> 45 mm)	ISO 17829:2015	[amount]	0	0	0
diameter	ISO 17829:2015	[mm]	6	6 or 8 ± 1	6 or 8 ± 1
heavy metals (quantification according to ISO 17294-2:2016)					
Chromium (db)	ISO 16968:2015	[mg/kg]	< 1	≤ 10	≤ 10
Copper (db)	ISO 16968:2015	[mg/kg]	< 1	≤ 10	≤ 10
Zinc (db)	ISO 16968:2015	[mg/kg]	7,3	≤ 100	≤ 100
Lead (db)	ISO 16968:2015	[mg/kg]	< 0,5	≤ 10	≤ 10
Mercury (db)	ISO 16968:2015	[mg/kg]	< 0,075	≤ 0,1	≤ 0,1
Cadmium (db)	ISO 16968:2015	[mg/kg]	< 0,1	≤ 0,5	≤ 0,5
Arsenic (db)	ISO 16968:2015	[mg/kg]	< 0,5	≤ 1	≤ 1
Nickel (db)	ISO 16968:2015	[mg/kg]	< 1	≤ 10	≤ 10
ash melting behaviour (oxidizing atmosphere, ash preparation at 815°C)					
shrinking temperature SST	CEN/TS 15370-1:2006	[°C]	1140	-	-
deformation temperature DT	CEN/TS 15370-1:2006	[°C]	1500	≥ 1200	≥ 1100
hemisphere temperature HT	CEN/TS 15370-1:2006	[°C]	> 1550	-	-
flow temperature FT	CEN/TS 15370-1:2006	[°C]	> 1550	-	-

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

