

For the production of wood pellets produced by

SWEDEN

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

we confirm the following test results analysed within the inspection 2017 valid until the inspection in 2018.

Sample 2017074	Standard	unit	Pellets	Limit values according class A1	
				ENplus	DINplus
mechanical durability	ISO 17831-1	[%]	99,6	≥ 98,0	≥ 97,5
bulk density (ar)	ISO 17828	[kg/m ³]	650	750>BD≥600	750>BD≥600
moisture content	ISO 18134-2	[%]	6,1	≤ 10	≤ 10
ash content 550°C(db)	ISO 18122	[%]	0,3	≤ 0,7	≤ 0,7
net calorific value (ar)	ISO 18125	[MJ/kg]	17,8	≥ 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]	19,1	-	-
net calorific value (db)	ISO 18125	[kWh/kg]	5,3	-	-
Sulphur content (db)	ISO 16994	[%]	0,006	≤ 0,04	≤ 0,04
Chlorine content (db)	ISO 16994	[%]	0,01	≤ 0,02	≤ 0,02
Nitrogen content (db)	ISO 16948	[%]	0,05	≤ 0,30	≤ 0,30
pressing aid / additives	-	[%]	0,5	≤ 2	≤ 2
dimensions					
finer (< 3,15 mm)	ISO 18846	[%]	0,1	≤ 0,5* / ≤ 1	≤ 0,5* / ≤ 1
length (3,15 ≤ L ≤ 40 mm)	ISO 17829	[%]	99,9	> 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]	7,9	≤ 100	≤ 100
Lead (db)	ISO 16968	[mg/kg]	< 0,5	≤ 10	≤ 10
Mercury (db)	ISO 16968	[mg/kg]	< 0,05	≤ 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]	920	-	-
deformation temperature DT	CEN/TS 15370-1	[°C]	1210	≥ 1200	≥ 1200
hemisphere temperature HT	CEN/TS 15370-1	[°C]	> 1550	-	-
flow temperature FT	CEN/TS 15370-1	[°C]	> 1550	-	-

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