

For the production of wood pellets produced by

RST-Pellet d.o.o., Delnice, CROATIA

certified according to ENplus® A1 and A2 with the ID number: HR023

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

the inspection in 2020.							
Samples 2019096			Pellets	Pellets	Pellets	Limit values according EN <i>plus</i> ®	
	Standard	unit	spruce	beech	spruce / beech ***	Class A1	Class A2
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mechanical durability	ISO 17831-1	[%]	98,3	98,9	98,9	≥ 98,0	≥ 97,5
bulk density (ar)	ISO 17828	[kg/m³]	650	660	680	750≥BD≥600	750≥BD≥600
moisture content	ISO 18134-2	[%]	6,0	6,2	6,6	≤ 10	≤ 10
ash content 550°C(db)	ISO 18122	[%]	0,5	0,9	0,6	≤ 0,7	≤ 1,2
net calorific value (ar)	ISO 18125	[MJ/kg]	17,4	16,8	17,6	≥ 16,5	≥ 16,5
net calorific value (ar)	ISO 18125	[kWh/kg]	4,8	4,7	4,9	≥ 4,6	≥ 4,6
net calorific value (db)	ISO 18125	[MJ/kg]	18,7	18,1	19,0	-	-
net calorific value (db)	ISO 18125	[kWh/kg]	5,2	5,0	5,3	-	-
gross calorific value (ar)	ISO 18125	[MJ/kg]	19,0	18,3	19,1	-	-
gross calorific value (ar)	ISO 18125	[kWh/kg]	5,3	5,1	5,3	-	-
Sulphur content (db)	ISO 16994	[%]	0,01	0,012	0,008	≤ 0,04	≤ 0,05
Chlorine content (db)	ISO 16994	[%]	< 0,005	< 0,005	0,006	≤ 0,02	≤ 0,02
Nitrogen content (db)	ISO 16948	[%]	0,10	0,14	0,11	≤ 0,30	≤ 0,50
pressing aid / additives	-	[%]	< 1	< 1	< 1	≤ 1,8	≤ 1,8
dimensions							
fines (< 3,15 mm)	ISO 18846	[%]	0,3	0,2	0,2	≤ 0,5* / ≤ 1	≤ 0,5* / ≤ 1
length (3,15 \leq L \leq 40 mm)	ISO 17829	[%]	99,7	99,8	99,8	> 98,5* / >98	> 98,5* / >98
length (40 ≤ L ≤ 45 mm)	ISO 17829	[%]	0	0	0	≤ 1	≤ 1
length (> 45 mm)	ISO 17829	[amount]	0	0	0	0	0
diameter	ISO 17829	[mm]	6	6	6	6 or 8 ± 1	6 or 8 ± 1
heavy metals**							
Chromium (db)	ISO 16968	[mg/kg]	< 1	< 1	< 1	≤ 10	≤ 10
Copper (db)	ISO 16968	[mg/kg]	1,0	1,8	2,7	≤ 10	≤ 10
Zinc (db)	ISO 16968	[mg/kg]	11	7,0	8,9	≤ 100	≤ 100
Lead (db)	ISO 16968	[mg/kg]	< 0,5	< 0,5	< 0,5	≤ 10	≤ 10
Mercury (db)	ISO 16968	[mg/kg]	< 0,075	< 0,075	< 0,075	≤ 0,1	≤ 0,1
Cadmium (db)	ISO 16968	[mg/kg]	< 0,1	< 0,1	0,11	≤ 0,5	≤ 0,5
Arsenic (db)	ISO 16968	[mg/kg]	< 0,5	< 0,5	< 0,5	≤ 1	≤ 1
Nickel (db)	ISO 16968	[mg/kg]	< 1	< 1	< 1	≤ 10	≤ 10
ash melting behaviour (ash preparation at 815°C)							
shrinking temperature SST	CEN/TS 15370-1	[°C]	1150	1110	830	-	-
deformation temperature DT	CEN/TS 15370-1	[°C]	1420	1390	1280	≥ 1200	≥ 1100
hemisphere temperature HT	CEN/TS 15370-1	[°C]	> 1550	> 1550	> 1550	-	-
flow temperature FT	CEN/TS 15370-1	[°C]	> 1550	> 1550	> 1550	-	-

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

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