

For the production of
wood pellets produced by

RST-Pellet d.o.o. plant in **Delnice, Croatia**

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

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

BEA2022092	Standard	unit	Pellets spruce50% beech50%	Limit values according ENplus®	
				Class A1	Class A2
mechanical durability	ISO 17831-1:2015	[%]	98,3	≥ 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	[%]	6,5	≤ 10	≤ 10
ash content 550°C (db)	ISO 18122:2015	[%]	0,54	≤ 0,7	≤ 1,2
net calorific value (ar)	ISO 18125:2017	[MJ/kg]	17,4	≥ 16,5	≥ 16,5
net calorific value (ar)	ISO 18125:2017	[kWh/kg]	4,8	≥ 4,6	≥ 4,6
net calorific value (db)	ISO 18125:2017	[MJ/kg]	18,8	-	-
net calorific value (db)	ISO 18125:2017	[kWh/kg]	5,2	-	-
gross calorific value (ar)	ISO 18125:2017	[MJ/kg]	18,9	-	-
gross calorific value (ar)	ISO 18125:2017	[kWh/kg]	5,3	-	-
Sulphur content (db)	ISO 16994:2016	[%]	0,014	≤ 0,04	≤ 0,05
Chlorine content (db)	ISO 16994:2016	[%]	0,006	≤ 0,02	≤ 0,02
Nitrogen content (db)	ISO 16948:2015	[%]	0,10	≤ 0,30	≤ 0,50
dimensions					
finer (< 3,15 mm)	ISO 18846:2016	[%]	0,2	≤ 0,5 ¹⁾ / ≤ 1	≤ 0,5 ¹⁾ / ≤ 1
length (40 ≤ L ≤ 45 mm)	ISO 17829:2015	[%]	0,1	≤ 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 ISO 17294-2: 2016)					
Chromium (db)	ISO 16968:2015	[mg/kg]	< 1,0	≤ 10	≤ 10
Copper (db)	ISO 16968:2015	[mg/kg]	1,0	≤ 10	≤ 10
Zinc (db)	ISO 16968:2015	[mg/kg]	9,1	≤ 100	≤ 100
Lead (db)	ISO 16968:2015	[mg/kg]	< 0,50	≤ 10	≤ 10
Mercury (db)	ISO 16968:2015	[mg/kg]	< 0,075	≤ 0,1	≤ 0,1
Cadmium (db)	ISO 16968:2015	[mg/kg]	0,12	≤ 0,5	≤ 0,5
Arsenic (db)	ISO 16968:2015	[mg/kg]	< 0,50	≤ 1	≤ 1
Nickel (db)	ISO 16968:2015	[mg/kg]	< 1,0	≤ 10	≤ 10
ash melting behaviour (ash preparation at 815°C, measurement at oxidizing atmosphere)					
shrinking temperature SST	CEN/TS 15370-1:2006	[°C]	1130	-	-
deformation temperature DT	CEN/TS 15370-1:2006	[°C]	1430	≥ 1200	≥ 1100
hemisphere temperature HT	CEN/TS 15370-1:2006	[°C]	>1550	-	-
flow temperature FT	CEN/TS 15370-1:2006	[°C]	>1550	-	-

db... dry basis; ar... as received

¹⁾ 1% at factory gate or when loading truck for delivery to end-users, 0,5% when filling pellets bags/sealed big bags