

5 TESTS

The tests performed by Eurofins Umwelt Ost GmbH. Testing took place within the period 20.6. – 29.6.2018.

5.1 Results

The results of the laboratory tests are listed in table 3. For comparison the requirements according to ENplus (class A1) are listed in the last column.

Table 3: Results for the performed analyses

		Standard	Premium Pellets	ENplus A1 requirements
sample number			1	-
Finest (bags)*	[%]	ISO 18846	0,3	≤ 0,5
Length	[-]	ISO 17829	ok	3,15 < L ≤ 40
Diameter	[mm]		6,1	6 ± 1
Mechanical durability	[%]	ISO 17831-1	98,3	≥ 98,0
Bulk density	[kg/m³]	ISO 17828	690	600 ≤ BD ≤ 750
Moisture content	[%]	ISO 18134	8,0	≤ 10
Ash content 550°C(db)	[%]	ISO 18122	0,2	≤ 0,7
Net calorific value (ar)	[kWh/kg]	EN 18125	4,8	≥ 4,6
Additive	[%]	-	-	≤ 2
Sulphur content (db)	[%]	ISO 16994	0,02	≤ 0,04
Chlorine content (db)	[%]		0,01	≤ 0,02
Nitrogen content (db)	[%]	ISO 16948	0,06	≤ 0,30
Arsenic (db)	[mg/kg]	ISO 16968	< 0,8	≤ 1
Lead (db)	[mg/kg]		< 2	≤ 10
Cadmium (db)	[mg/kg]		0,2	≤ 0,5
Chromium (db)	[mg/kg]		< 1	≤ 10
Copper (db)	[mg/kg]		< 1	≤ 10
Zinc (db)	[mg/kg]		10	≤ 100
Mercury (db)	[mg/kg]		< 0,05	≤ 0,1
Nickel (db)	[mg/kg]		1	≤ 10
Ash melting behaviour				
Deformation temp.	[°C]	CEN/TS	1430	≥ 1200
Flow temperature	[°C]	15370-1	1470	-