

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

Sample 2019285	Standard	unit	Pellets	Limit values according class A1	
				ENplus*	DINplus
mechanical durability**	ISO 17831-1	[%]	98,9	≥ 98,0	≥ 97,5
bulk density (ar)**	ISO 17828	[kg/m ³]	670	750 ≥ BD ≥ 600	750 ≥ BD ≥ 600
moisture content**	ISO 18134-2	[%]	5,5	≤ 10	≤ 10
ash content 550°C(db)**	ISO 18122	[%]	0,3	≤ 0,7	≤ 0,7
net calorific value (ar)**	ISO 18125	[MJ/kg]	18,0	≥ 16,5	≥ 16,5
net calorific value (ar)	ISO 18125	[kWh/kg]	5,0	≥ 4,6	≥ 4,6
net calorific value (db)	ISO 18125	[MJ/kg]	19,2	-	-
net calorific value (db)	ISO 18125	[kWh/kg]	5,3	-	-
gross calorific value (ar)	ISO 18125	[MJ/kg]	19,4	-	-
gross calorific value (ar)	ISO 18125	[kWh/kg]	5,4	-	-
Sulphur content (db)	ISO 16994	[%]	0,007	≤ 0,04	≤ 0,04
Chlorine content (db)	ISO 16994	[%]	< 0,005	≤ 0,02	≤ 0,02
Nitrogen content (db)	ISO 16948	[%]	0,09	≤ 0,30	≤ 0,30
pressing aid / additives	-	[%]	0	≤ 1,8	≤ 2
dimensions**					
fines (< 3,15 mm)	ISO 18846	[%]	0,2	≤ 0,5* / ≤ 1	≤ 0,5* / ≤ 1
length (3,15 ≤ L ≤ 40 mm)	ISO 17829	[%]	99,8	> 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]	2,90	≤ 10	≤ 10
Zinc (db)	ISO 16968	[mg/kg]	7,4	≤ 100	≤ 100
Lead (db)	ISO 16968	[mg/kg]	< 0,5	≤ 10	≤ 10
Mercury (db)	ISO 16968	[mg/kg]	< 0,075	≤ 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]	1230	-	-
deformation temperature DT	CEN/TS 15370-1	[°C]	1580	≥ 1200	≥ 1200
hemisphere temperature HT	CEN/TS 15370-1	[°C]	> 1600	-	-
flow temperature FT	CEN/TS 15370-1	[°C]	> 1600	-	-

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

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