

BIOPULP

Clean biofuel for biogas plants

Produced by:

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Declaration

70999-15
 06. Nov. 2019

Biopulp from source-sorted organic residual materials (waste) from public, private, retail and industry Approval number DK-06-03-intp-051 to handling of animal by-products in category 3 material for organic biomass.

Product description:

Biopulp is an energy source for use in biogas plants for the production of biogas.

The product is produced from source-sorted household waste and other organic materials from both retail and food industries in cat. 3 in accordance with the animal by-products regulation.

The product is characterized by the majority of the organic particles being very small, most of which are less than 0,1 mm, and is easily marketable to biogas plants. Biopulp is a very homogeneous product with a very low level of impurities like plastic, glass, stone and metal.

Biopulp is produced on KomTek's Ecogi plant that uses wet-pulping technology with subsequent effective separation of rejection of undesired substances.

Danish legislation applicable:

Biopulp must be declared after **Requirements described in Order No. 1001 og 27-6-2018** on the use of waste for agriculture purposes.

Calculated specs from analysis with 17% dry matter			Analyzes		
			Latest	Average	
Total N	4,2	kg/ton wet weight	24,7	28,3	kg/ton dry matter
Phosphorus (P)	0,56		3,3	4,2	
Magnesium (Mg)	0,83		4,9	3,4	
Potassium (Ca)	1,33		7,8	8,5	
Sulfur (S)	0,46		2,7	3,0	
Biogas (calculated)	119	m³ biogas			

Purity of biopulp	Limits	Latest analysis 19-30067	Average
Area covered in plastic cm² per% TS	1 cm² per% TS measured in one liter of biopulp	0,20	0,32
Plastic in dry matter% in TS	Plastic > 2 mm is 0.15% by weight per dry matter	0,012	0,015
Physical impurities in dry matter% in TS	Plastic, glass and composite materials > 2 mm is 0.5% by weight / dry matter	0,100	0,124

mg/kg dry matter	Limits	Latest analysis 19-30068	Average
Lead (Pb)	120	3,3	4,4
Cadmium (Cd)	0,8	0,07	0,12
Chrome (Cr)	100	1,4	4,3
Chrome 6 (Cr)	-	0**	0**
Copper (Cu)	1000	97	76
Nickel (Ni)	30	2,2	4,0
Zinc (Zn)	4000	448	347
Mercury (Hg)	0,8	0**	0,03
PAH	3	0**	0,73
NPE	20	1,50	0,9
DEPH	50	0**	3,7
LAS	1300	0**	158

**Concentration 0 are values "non-measurable"