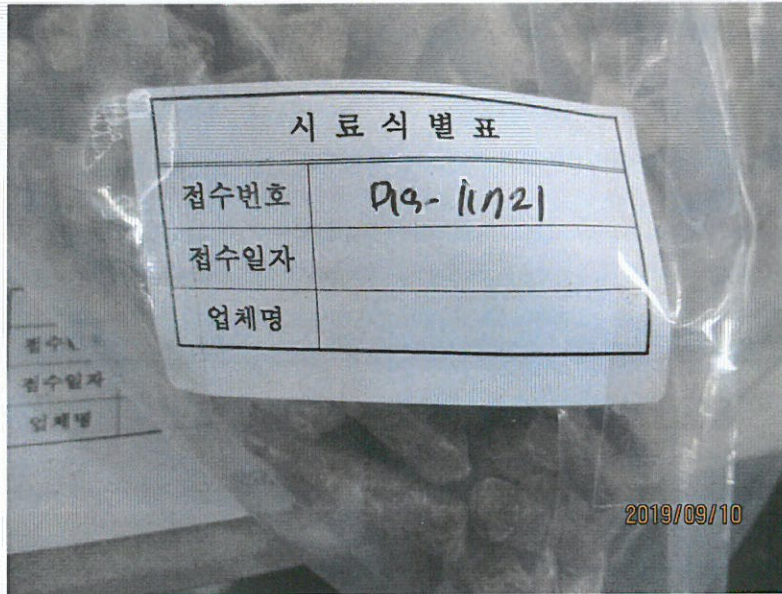


Test Report Number	D19-11721	Test Method Used	Refer to test result
Received date	2019. 09. 10	Issued date	2019. 09. 18
Applicant	CONTROL UNION(THAILAND) CO., LTD		

Sample Name	WOOD PELLET
Sample Number	-
Sampling No	-
Supplier	-
Country of Origin	THAILAND
Manufacturer	PT PARAWOOD CO., LTD
Analyzed date	2019. 09. 10 ~ 18
Description	-



Sample picture

Tested by

Yim Ji-soo

Reviewed by

Oh Mu-hyeok

Certificated by President of DARI
DaeDuck Analytical Research Institute



Test Report Number

D19-11721

TEST RESULT

Item	Base	Unit	Determined value	Test method	
Diameter	-	mm	8	Notification No. 2018-8 by Korea Forest Research Institute	
Length	-	mm	21		
Unit Volume Mass	ar	kg/m ³	670		
Total Moisture	ar	% wt	4.2		
Ash	ad	% wt	1.7		
Fines	ar	% wt	0.2		
Durability	ar	% wt	98.9		
Gross Calorific Value	d	MJ/kg (kcal/kg)	19.4 (4 630)		
Gross Calorific Value	ad	MJ/kg (kcal/kg)	18.6 (4 440)		
Gross Calorific Value	ar	MJ/kg (kcal/kg)	18.6 (4 430)		
Net Calorific Value	ar	MJ/kg (kcal/kg)	17.2 (4 100)		
Chlorine	ad	% wt	0.02		
Sulphur	ad	% wt	0.03		
Nitrogen	ad	% wt	0.2		
Ash Fusion Temperature, IDT (Reducing Atmosphere)	-	°C	> 1 500		
Other Substance	ar	% wt	< 2.0		
As (Arsenic)	d	mg/kg	< 0.5		
Cd (Cadmium)	d	mg/kg	0.1		
Cr (Chromium)	d	mg/kg	< 1		
Cu (Copper)	d	mg/kg	1		
Pb (Lead)	d	mg/kg	1		
Hg (Mercury)	d	mg/kg	< 0.01		
Ni (Nickel)	d	mg/kg	2		
Zn (Zinc)	d	mg/kg	15		
DNA Test (Rice Husk)	-	-	Negative		Genetic Determination
Fe (Iron)	d	mg/kg	223		ISO 16967:2015
Na	d	mg/kg	23		
K	d	mg/kg	2 398		

Remark

ar: As received basis, ad: Air dried basis, d: Dried basis

-END-