

DATA SHEET

100% ECOLOGICAL

TRADE NAME
TECHNICAL NAME

Your text here 1



DIMENSIONS
3 cm x 6 mm long

COFFUEL INDUSTRIAL
PELLETS

MANUFACTURING

Classified, Crushed,
Homogenized, Pressed, Ripened,
Dried and Packed.

PERCENTAGE COMPOSITION

100% Coffee Husk

RECOMENDATION

Keep out of reach of children and
animals, protect from moisture,
flammable products and lighters.



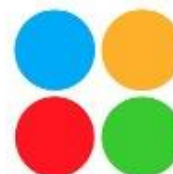
USES / Heating, Industries, Boilers and Smokers.

PELLETS They are obtained from the compression of raw materials, obtaining a solid biofuel that requires an initiator or external fuel (Oil, Flame or a Device) to combust.



Autopista al Aeropuerto Km.8
Barranquilla-Colombia
Reporte N°: 1133

Minerals Services
Barranquilla
F33
Job No. OL752E1
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ANALYSIS REPORT

LOCALITY : BARRANQUILLA
PRODUCT : PELLETS BASED ON COFFEE WASTE BIOMASS

According to instructions received from **JUAN DANIEL GARCIA CABAS**, the following analytical results were established by the SGS Colombia S.A.S laboratory in Barranquilla, applying the applicable standard:

Laboratory ID: OP2101343.002
Sample ID: PELLETS BASED
ON COFFEE WASTE BIOMASS

Date of receipt: 07/07/2024

Analysis Date: 07/17/2024

*-CARBON-BIOMASS ANALYSIS Carbon, % by weight	Dry Base 15.58	Norma - Método ASTM D5373-16 Método A
*-MOISTURE ANALYSIS Moisture, % by weight	Dry Base 10.0	Norma - Método ASTM D5373-16 Método A
*-NITROGEN-BIOMASS ANALYSIS Nitrogen, % by weight	Dry Base 2.0	Norma - Método ASTM D5373-16 Método A
*-ASH-BIOMASS ANALYSIS Ash, % by weight	Dry Base 0.2	Norma - Método ASTM D3174-12
*-VOLATILE MATTER-BIOMASS ANALYSIS Volatile Matter, % by weight	Dry Base 78.3	Norma - Método ASTM D3175-18 (A) - SF The Volatile Matter Was Determined as Procedure for Spark
*-ANALYSIS OF GROSS HEATING POWER - BIOMASS Gross calorific value (Btu/Lb)	Dry Base 19023	Norma - Método ASTM D5865-19
Gross calorific value (Kcal/Kg)	4797	ASTM D5865-19
Gross calorific value (GJ/Ton)	18.73	ASTM D5865-19
Gross calorific value (J/g)	18731	ASTM D5865-19

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ANALYSIS REPORT

*-FIXED CARBON CALCULATION - BIOMASS

Fixed Carbon (by difference) % by weight

*-CHLORINE ANALYSIS - BIOMASS

Chlorine, Cl %

*-SULFUR (SO3) ANALYSIS - BIOMASS

Sulfur Trioxide, SO₃

*-ELEMENT ANALYSIS MAY AND MEN IN BIOMASS- ASTM 6349

Aluminum Oxide, Al₂O₃

Iron Oxide, Fe₂O₃

Silicon Dioxide, SiO₂

Sodium Oxide, Na₂O

Potassium Oxide, K₂O

Calcium Oxide, CaO

Magnesium Oxide, MgO

Manganese Oxide, MnO₂

Titanium Dioxide, TiO₂

Phosphorus Pentoxide, P₂O₅

Barium Oxide, BaO

Strontium Oxide, SrO

*-OXYGEN CALCULATION BY DIFFERENCE - BIOMASS

Oxygen (by difference) %

*-FINISHED EFFICIENCY ANALYSIS

%

Dry Base	Norma - Método
15.58	ASTM D3172-07a (by diff)

Dry Base	Norma - Método
0.026	ASTM D4208-13

Result	Norma - Método
0.15 %	ASTM D5016-16

Result	Norma - Método
4.15 %	ASTM D6349-13
3.12 %	ASTM D6349-13
>80 %	ASTM D6349-13
0.13 %	ASTM D6349-13
3.10 %	ASTM D6349-13
4.89 %	ASTM D6349-13
0.94 %	ASTM D6349-13
0.40 %	ASTM D6349-13
0.07 %	ASTM D6349-13
1.85 %	ASTM D6349-13
0.03 %	ASTM D6349-13
<0.05 %	ASTM D6349-13

Dry Base	Norma - Método
36.99	ASTM D3176-09 (by diff)

Dry Base	Norma - Método
97.0	ASTM D3173/D3173M-17a

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