



WOOD PELLETS

product information:

Wood pellets are a type of solid bio fuel made from compressed sawdust and shavings. They are a renewable and sustainable energy source that can be used for heating and electricity generation. Wood pellets are easy to store and transport, and produce low emissions compared to traditional fossil fuels. They are a popular choice for residential and commercial heating, as well as for industrial processes.

Ref. No.: CAR022215401

Alexandria on: October 30, 2022

QUALITY CERTIFICATE

ANALYSIS

Sr.	Test	Results	Standard Test Method	Sr.	Test	Results	Standard Test Method
1	Total Moisture	3.5	ISO 589	12	Hydrogen (As received)	6.23	
2	Ash(As received)	1.25	ISO 1171	13	Hydrogen (in dry)	6.46	ASTM D-5373
3	Ash(in dry)	1.3		14	Carbon (As received)	50.95	
4	Volatile matter(As received)	80.1	ISO 562	15	Carbon(in dry)	52.8	
5	Volatile matter(in dry)	83		16	Nitrogen (As received)	0.2	
6	Fixed carbon (As received)	15.15	ISO 1928	17	Nitrogen(in dry)	0.21	ISO 29541
7	Fixed carbon (in dry)	15.7		18	Sulphur (As received)	0.02	
8	Gross Calorific value (As received)	4655 Kcal/Kg		19	Sulphur(in dry)	0.02	
9	Gross Calorific value (in dry)	4824 Kcal/Kg	Directive 2007//589/EC	20	Oxygen (As received)	39.45	
10	Nett calorific value (CV)	4335 Kcal/Kg		21	Oxygen(in dry)	38.08	
11	Emissionfactor CO2(CV)	102.86 tCO2/TJ					

AFT (Oxidizing)

Sr.	Test	Results	Standard Test Method
1	Initial Deformation temperature	1210 C	ISO 540
2	AFT - ST(Softening temperature)	1220 C	
3	AFT - HT (Hemispherical Temperature)	1230 C	
4	AFT - FT (Fluid temperature)	1240 C	

AFT (Reducing)

Sr.	Test	Results	Standard Test Method
1	Initial Deformation temperature	1170 C	ISO 540
2	AFT - ST(Softening temperature)	1180 C	
3	AFT - HT (Hemispherical Temperature)	1190 C	
4	AFT - FT (Fluid temperature)	1210 C	


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Metal and other element

Sr.	Test	Results	Standard Test Method
1	Cd (Cadmium)	<5 PPM	ASTM D6357
2	Pb (Lead)	298 PPM	ASTM D6357
3	As (Arsenic)	0.3 PPM	ASTM D4606
4	Hg (Mercury)	<0.05 PPM	ASTM D6722
5	Ni (Nickel)	79 PPM	ASTM D6357
6	Cr (Chromium)	294 PPM	ASTM D6357
7	Cu (Copper)	251 PPM	ASTM D6357
8	Zn (Zinc)	2877 PPM.	ASTM D6357
9	Chlorine (As received)	490 PPM	ISO 589
10	Chlorine (in dry)	508 PPM	
11	Fluorine(As received)	26 PPM	
12	Fluorine (in dry)	27 PPM	
13	Mechanical Durability	96%	
14	Bulk Density	620 Kg/m3	
15	sieve analysis : +3,15 -3,15	98.96 1,04	
16	SIZE ANALYSIS: Length Diameter	10-44 mm 4-6 mm	

Ash Composition

Sr	Test	Results %	Standard Test Method
1	Na2O	3.82	ASTM D 4326
2	MgO	3.79	
3	Al2O3	3.94	
4	SiO2	33.42	
5	P2O5	1.3	
6	SO3	3.6	
7	K2O	4.77	
8	CaO	28.04	
9	TiO2	0.84	
10	Fe2O3	3.71	
11	Mn3O4	0.92	
12	Phosphor in Ash	0.57	
13	Phosphor in dry coal	0.007	
14	phosphor in original coal	0.007	

.....End of report



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**THANK YOU
FOR YOUR INTEREST
IN OUR PRODUCT**

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