


win orts esting Inc.

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Report No: USR:W218-0322-01
Issue No: 1

Analytical Test Report

Client: VULCAN WOOD PRODUCTS
 PO Box 125
 Norway, MI 49870
Attention: Mary Racine
PO No:

Signed: 
 Katy Mickelson
 Senior Chemist
Date of Issue: 4/12/2018
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details
Sample Log No: W218-0322-01 **Sample Date:**
Sample Designation: Pellet Sample **Sample Time:**
Sample Recognized As: Wood Pellets **Arrival Date:** 4/4/2018

	METHOD	UNITS	MOISTURE	AS
			FREE	RECEIVED
Moisture Total	ASTM E871	wt. %		3.30
Ash	ASTM D1102	wt. %	0.43	0.42
Volatile Matter	ASTM D3175	wt. %		
Fixed Carbon by Difference	ASTM D3172	wt. %		
Sulfur	ASTM D4239	wt. %	0.012	0.012
SO ₂	Calculated	lb/mmbtu		0.029
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne		
Net Cal. Value at Const. Pressure	ISO 1928	J/g		
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19685	19035
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8464	8184
Carbon	ASTM D5373	wt. %		
Hydrogen*	ASTM D5373	wt. %		
Nitrogen	ASTM D5373	wt. %		
Oxygen*	ASTM D3176	wt. %		

*Note: As received values do not include hydrogen and oxygen in the total moisture.

Chlorine	ASTM D6721	mg/kg		
Fluorine	ASTM D3761	mg/kg		
Mercury	ASTM D6722	mg/kg		

Bulk Density	ASTM E873	lbs/ft ³		
Fines (Less than 1/8")	TPT CH-P-06	wt. %		
Durability Index	Kansas State	PDI		
Sample Above 1.50"	TPT CH-P-06	wt. %		
Maximum Length (Single Pellet)	TPT CH-P-06	inch		
Diameter, Range	TPT CH-P-05	inch		to
Diameter, Average	TPT CH-P-05	inch		
Stated Bag Weight	TPT CH-P-01	lbs		
Actual Bag Weight	TPT CH-P-01	lbs		

Comments