



Twin Ports Testing, Inc.
 1301 North 3rd Street
 Superior, WI 54880
 p: 715-392-7114
 p: 800-373-2562
 f: 715-392-7163
 www.twinportstesting.com

Report No: USR:W214-0142-01
Issue No: 1
This report replaces all previous issues

Analytical Test Report

Client: FIBER BY-PRODUCTS CORP.
 70721 US Hwy 131
 White Pigeon, MI 49099
Attention: Cory M. Schrock
PO No:

Signed: *Stephen Sundeen*
 Stephen Sundeen
 Chemistry Laboratory Manager
Date of Issue: 2/21/2014
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Sample Log No: W214-0142-01 **Sample Date:**
Sample Designation: 40 Lb Pellet Bag **Sample Time:**
Sample Recognized As: Pellets **Arrival Date:** 2/12/2014

Test Results

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		3.32
Ash	ASTM D1102	wt. %	0.24	0.24
Volatile Matter	ASTM D3175	wt. %		
Fixed Carbon by Difference	ASTM D3172	wt. %		
Sulfur	ASTM D4239	wt. %	0.001	0.001
SO ₂	Calculated	lb/mmbtu		0.002
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	19924	19262
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8566	8282
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	39	37
Fluorine	ASTM D3761	mg/kg		
Mercury	ASTM D6722	mg/kg		
Bulk Density	ASTM E873	lbs/ft ³		44.45
Fines (Less than 1/8")	TPT CH-P-06	wt. %		0.15
Durability Index	Kansas State	PDI		98.4
Sample Above 1.50"	TPT CH-P-06	wt. %		0.0
Maximum Length (Single Pellet)	TPT CH-P-06	inch		1.686
Diameter, Range	TPT CH-P-05	inch	0.246 to	0.248
Diameter, Average	TPT CH-P-05	inch		0.247
Stated Bag Weight	TPT CH-P-01	lbs		40.0
Actual Bag Weight	TPT CH-P-01	lbs		40.3

Comments