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**Report No: USR:W212-0048-01**  
**Issue No: 1**  
*This report replaces all previous issues*

# Analytical Test Report

**Client:** TURMAN HARDWOOD PELLETS  
 152 Boyer Rd  
 Galax VA 24333  
**Attention:** Mark Pennington  
**PO No:**

**Signed:**  
  
 Kevin Anderson  
 IT Manager  
**Date of Issue:** 1/18/2012  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

**Sample Details**  
**Sample Log No:** W212-0048-01 **Sample Date:**  
**Sample Designation:** 40# Pellet Bag **Sample Time:**  
**Sample Recognized As:** Pellets **Arrival Date:** 1/12/2012

## Test Results

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		3.75
Ash	ASTM D1102	wt. %	0.29	0.28
Volatile Matter	ASTM D3175	wt. %		
Fixed Carbon by Difference	ASTM D3175	wt. %		
Sulfur	ASTM D4239	wt. %	0.009	0.009
SO <sub>2</sub>	Calculated	lb/mmbtu		0.021
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	19798	19015
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8512	8175
Carbon	ASTM D5373	wt. %		
Hydrogen	ASTM D5373	wt. %		
Nitrogen	ASTM D5373	wt. %		
Oxygen	ASTM D3176	wt. %		
Chlorine	ASTM D6721	mg/kg	104	100
Fluorine	ASTM D3761	mg/kg		
Mercury	ASTM D6722	mg/kg		
Bulk Density	ASTM E873	lbs/ft <sup>3</sup>		43.74
Fines (Less than 1/8")	TPT CH-P-06	wt. %		0.57
Durability Index	Kansas State	PDI		98.6
Sample Above 1.50"	TPT CH-P-06	wt. %		0.0
Maximum Length (Single Pellet)	TPT CH-P-06	inch		2.066
Diameter, Range	TPT CH-P-05	inch	0.249 to	0.255
Diameter, Average	TPT CH-P-05	inch		0.252
Stated Bag Weight	TPT CH-P-01	lbs		40.0
Actual Bag Weight	TPT CH-P-01	lbs		41.1

**Comments**