

REPRESENTATIVE ANALYSIS ST. NICHOLAS PROCESSING PLANT

Specifications	STOVE	CHESTNUT	PEA	BUCKWHEAT	RICE	BARLEY	NO. 4 BUCKWHEAT	NO. 5 BUCKWHEAT
Screen Size*								
Inches	3 - 1 7/8	1 7/8 - 13/16	13/16 - 9/16	9/16 - 7/16	7/16 - 3/16	3/16 - 3/32	3/32 - 3/64	3/64 - 100mesh
mm	76-48	48-21	21-14	14-11	11-5	5-2	2-1	<1
Proximate Analysis (Dry Basis)								
% Ash	9.50	9.50	9.50	9.50	9.50	11.50	11.50	14.00
% Volatile	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.50
% Fixed Carbon	85.50	85.50	85.50	85.50	85.50	83.50	83.00	80.50
Ultimate Analysis (Dry Basis)								
% Carbon	84.65	84.65	84.65	84.65	84.65	82.65	82.25	79.50
% Hydrogen	2.00	2.00	2.00	2.00	2.00	2.00	1.90	2.00
% Nitrogen	1.60	1.60	1.60	1.60	1.60	1.50	1.50	1.60
% Sulfur	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
% Ash	9.5	9.5	9.5	9.5	9.5	11.5	11.5	14.0
% Oxygen	1.70	1.70	1.70	1.70	1.70	1.80	2.30	2.35
Heating Value (Dry Basis)								
Btu/lb	13,300	13,300	13,300	13,300	13,300	12,900	12,900	12,500
Kcal/kg	7,390	7,390	7,390	7,390	7,390	7,170	7,170	6,950
Ash Fusion Temp. (Softening Point)								
°F	2,700+	2,700+	2,700+	2,700+	2,700+	2,700+	2,700+	2,700+
°C	1,480+	1,480+	1,480+	1,480+	1,480+	1,480+	1,480+	1,480+
Moisture (As Received)								
%	5.00	5.00	7.00	7.00	7.00	9.00	9.50	13.00
Hardgrove Grindability Index								
	38	38	38	38	38	40	40	40

NOTE: Modified High Carbon Material and blended sizes available upon request.

*Round Mesh Screen

REPRESENTATIVE MINERAL ANALYSIS OF ASH

	RESULTS, % OF ASH
Silicon Dioxide	54.0%
Aluminum Oxide	32.4%
Iron Oxide	5.4%
Titanium Dioxide	2.7%
Potassium Oxide	2.7%
Magnesium Oxide	0.8%
Calcium Oxide	0.7%
Sodium Oxide	0.4%
Sulfur Trioxide	0.2%
Phosphorus Pentoxide	0.2%
Barium Oxide	0.1%
Others	0.4%



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