

PRODUCT INFORMATION

Technical Data sheet - Palm Kernel Shell (PKS)



PKS is a by-product in the production of palm oil and is commonly used in the natural biomass energy industry. PKS is a fibrous material, brownish-yellow in colour and with particle sizes normally ranging between 5mm and 40mm. Due to its high calorific value, averaging 4000 kcal/kg, and low ash content, it is considered an attractive source of fuel in the production of energy from renewable sources.

PARAMETERS	UNITS	VALUES*	ACCURACY
- Moisture	%	12.00	±1.08%
Proximate analysis (Dry Basis)			
- Ash content	%	3.00	±1.27%
- Volatile matter	%	63.45	±0.68%
- Fixed carbon	%	13.55	
Ultimate analysis (Dry Basis)			
- Carbon	%	57.91	±2.50%
- Hydrogen	%	12.60	±7.52%
- Nitrogen	%	0.04	±0.03%
- Sulphur	%	<0.01	
- Oxygen	%	49.99	±0.61%
Selected elements (Dry Basis)			
- Chloride	%	0.01	
- Potassium	%	0.07	
- Silica	%	2.58	
Energy and power (Dry Basis)			
- Higher Heating Value	MJ/kg	20.09	±0.43%
	kcal/kg	4,798	
- Lower Heating Value	MJ/kg	17.34	
	kcal/kg	4,142	
- Density (ARB)	kg/m ³	682	
- LHV Energy density	MJ/m ³	11,826	
- Thermal power based upon 100 tpd and LHV	MWth	20.07	

^{*} All values are indicative. Product will be supplied on a certificated basis.

Supply is based upon FOB Kalimantan Port or Sumatra Port - Indonesia

Minimum order: 1000 dry tonnes

Payment Terms: 50% T/T in advance and Balance against B/L copy (Payment by L/C acceptable

for amounts above USD15,000)

Standard shipping documents supplied: Bill of Lading, Invoice, Packing list, Certificate of Origin.

All palm plantation biomass sources are either RSPO or ISCC certified. Where appropriate, Organics will support qualifying plantations and mills to attain the highest levels of visible compliance in such matters.





Organics *carbon* brand products are sold through Organics Ltd. Organics Ltd warrants that its products conform to the information contained in this and other Organics Ltd publications. Purchase must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip. Bulk shippments may be supplied either FOB or DDP.

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