



PT. ROSA GLOBAL TRADE

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CERTIFICATE OF ANALYSIS (COA) - BRIQUETTE CHARCOAL SERIES

1. PREMIUM COCONUT SHISHA BRIQUETTE

GRADE A1 EXPORT / SHISHA & HOOKAH

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Pure Coconut Shell	Visual & Origin Cert	Shape: Cube (22, 25, 26 mm)
Moisture Content	≤ 5.0% - 6.0%	ASTM D3173	Ash Color: Pure White / Light Silver
Ash Content	1.8% - 2.5% (Max 3.0%)	ASTM D3174	Burning Time: 2.0 - 2.5 Hours
Fixed Carbon	80.0% - 85.0%	ASTM D3172	Smell / Smoke: Odorless & Smokeless
Volatile Matter	12.0% - 14.0%	ASTM D3175	Sparks: 100% Spark Free
Calorific Value	7,500 - 8,000 kcal/kg	ASTM D5865	Drop Test: No crack (>3 times drop)

2. PILLOW BRIQUETTE CHARCOAL

PREMIUM COCONUT & HARDWOOD MIX

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Coconut Shell / Mix	Visual Inspection	Shape: Pillow / Oval 30-40 mm
Moisture Content	≤ 7.0%	ASTM D3173	Ash Color: Light Grey / Cream
Ash Content	2.5% - 4.0%	ASTM D3174	Burning Time: 3.0 - 4.0 Hours
Fixed Carbon	76.0% - 82.0%	ASTM D3172	Application: BBQ & Industrial
Calorific Value	7,000 - 7,500 kcal/kg	ASTM D5865	Heat Quality: Steady High Heat

3. HEXAGONAL BRIQUETTE CHARCOAL

HIGH HEAT WITH CENTER HOLE

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Coconut Shell	Visual Inspection	Shape: Hexagonal 50x50/150 mm
Moisture / Ash	Moisture ≤7.0% Ash ≤3.5%	ASTM D3173/74	Ash Color: White / Light Grey
Fixed Carbon	78.0% - 82.0%	ASTM D3172	Burning Time: 4.0 - 5.0 Hours
Calorific Value	6,800 - 7,300 kcal/kg	ASTM D5865	Feature: Hollow core airflow

4. CYLINDER BRIQUETTE CHARCOAL

70% COCONUT + 30% HARDWOOD MIX

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	Coconut + Hardwood Mix	Blend Ratio Cert	Shape: Cylinder 40x50 mm
Moisture / Ash	Moisture ≤8.0% Ash ≤4.0%	ASTM D3173/74	Ash Color: Light Grey
Fixed Carbon	75.0% - 80.0%	ASTM D3172	Burning Time: 3.0 - 4.0 Hours
Calorific Value	6,500 - 7,000 kcal/kg	ASTM D5865	Application: Restaurant BBQ



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CERTIFICATE OF ANALYSIS (COA) - BIOMASS & BBQ SERIES

5. BBQ HEXA MEDIUM GRADE

COMMERCIAL BBQ & GRILLING GRADE

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Composition	70% Coconut + 30% Wood	Blend Cert	Shape: Hexa Long Bar
Moisture Content	≤ 8.0%	ASTM D3173	Ash Content: 3.0% - 5.0%
Fixed Carbon	75.0% - 80.0%	ASTM D3172	Burn Time: 3.0 - 4.0 Hours
Calorific Value	6,500 - 7,000 kcal/kg	ASTM D5865	Ignition: Quick & Steady Heat

6. SAWDUST BRIQUETTE CHARCOAL

100% HARDWOOD SAWDUST / PINI KAY

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Hardwood Sawdust	Visual Cert	Shape: Hexagonal extrusion hole
Moisture Content	5.9% Avg (≤ 7.0%)	ASTM D3173	Ash Content: 3.5% - 3.8%
Fixed Carbon	80.0% - 83.0%	ASTM D3172	Burn Time: 4.0 - 5.0 Hours
Calorific Value	7,000 - 7,500 kcal/kg	ASTM D5865	Feature: High density, no smoke

7. RICE HUSK BRIQUETTE CHARCOAL

BIOMASS FUEL / INDUSTRIAL BOILER

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Selected Rice Husk	Origin Cert	Shape: Solid Cylinder / Pellet
Moisture Content	5.5% - 6.0%	ASTM D3173	Ash Content: 12.0% - 14.0%
Fixed Carbon	40.0% - 45.0%	ASTM D3172	Sulphur Content: ≤ 0.07%
Calorific Value	4,000 - 4,300 kcal/kg	ASTM D5865	Application: Eco Boiler Fuel

8. WOOD PELLET (ENPLUS A1 GRADE)

PREMIUM EUROPEAN HEATING STANDARD

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Diameter & Length	6 - 8 mm Length ≤40mm	EN ISO 17829	Durability: ≥ 97.5%
Moisture Content	≤ 10.0%	EN ISO 18134	Bulk Density: ≥ 600 kg/m³
Ash Content	≤ 0.7% (Ultra Low)	EN ISO 18122	Fines (<3.15mm): ≤ 0.5%
Calorific Value	≥ 16.5 MJ/kg (3,960 kcal)	EN ISO 18125	Certification: ENplus A1 Spec



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CERTIFICATE OF ANALYSIS (COA) - NATURAL CHARCOAL SERIES

9. PALM SHELL CHARCOAL

NATURAL GRANULAR & INDUSTRIAL FUEL

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Palm Kernel Shell	Visual Inspection	Shape: Lump / Granular / Mesh
Moisture Content	≤ 8.0%	ASTM D3173	Ash Content: 3.0% - 5.0%
Fixed Carbon	75.0% - 85.0%	ASTM D3172	Burn Time: 4.0 - 6.0 Hours
Calorific Value	6,500 - 7,500 kcal/kg	ASTM D5865	Application: Industrial & Activated Carbon

10. NATURAL HARDWOOD CHARCOAL

RESTAURANT & RESTAURANT BBQ LUMP

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Natural Hardwood (Tamarind/Halaban)	Wood Species Cert	Shape: Natural Lump (5 - 15 cm)
Moisture Content	≤ 8.0%	ASTM D3173	Ash Content: 3.0% - 6.0%
Fixed Carbon	70.0% - 80.0%	ASTM D3172	Burn Time: 3.0 - 5.0 Hours
Calorific Value	6,000 - 7,000 kcal/kg	ASTM D5865	Feature: High heat, low smoke

11. COCONUT SHELL CHARCOAL (NATURAL)

RAW CHARCOAL & ACTIVATED CARBON MATERIAL

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Mature Coconut Shell	Visual Inspection	Shape: Crushed / Natural Lump
Moisture Content	≤ 10.0%	ASTM D3173	Ash Content: 5.0% - 8.0%
Fixed Carbon	65.0% - 75.0%	ASTM D3172	Burn Time: 3.0 - 4.0 Hours
Calorific Value	5,500 - 6,500 kcal/kg	ASTM D5865	Size Sieve: Cleaned & Screened (>3mm)

12. CANDLENUT SHELL CHARCOAL

GRANULAR BIOMASS & ACTIVATED CARBON RAW

PARAMETER	EXPORT STANDARD (COA)	TESTING METHOD	PHYSICAL PROPERTIES
Raw Material	100% Candlenut Shell (Kemiri)	Origin Cert	Shape: Granular / Chip
Moisture Content	≤ 12.0%	ASTM D3173	Ash Content: 8.0% - 12.0%
Fixed Carbon	60.0% - 70.0%	ASTM D3172	Burn Time: 2.5 - 4.0 Hours
Calorific Value	5,000 - 6,500 kcal/kg	ASTM D5865	Application: Industrial Boiler & Filter Raw