

PT. ADARO INDONESIA

adaro

ENVIROCOAL



ENVIROCOAL SPECIFICATIONS

TYPICAL SPECIFICATIONS

Proximate Analysis %	Moisture	a.r.	26.0
	Moisture	a.d.b.	14.5
	Ash	a.r.	1.3
	Ash	a.d.b.	1.5
	Volatile Matter	a.r.	37.5
	Volatile Matter	a.d.b.	43.0
	Fixed Carbon	a.r.	35.5
	Fixed Carbon	a.d.b.	41.0
	Calorific Value (kcal/kg)	g.a.r.	5,100
	Calorific Value (kcal/kg)	a.d.b.	5,900
	Total Sulphur		0.1
	Hardgrove Grindability Index		50

Ultimate Analysis %	Carbon	d.a.f	73.8
	Hydrogen	d.a.f	4.9
	Nitrogen	d.a.f	0.9
	Oxygen	d.a.f	20.3
	Sulphur	d.a.f	0.1

Ash Fusion Temperature C (Reducing Atmosphere)	Deformation		1,200
	Hemisphere		1,260
	Flow		1,340

Other Properties %	Chlorine	a.d.b.	0.01
	Fluorine	a.d.b.	0.006
	Mercury	ppm	0.04
	Boron	ppm	10

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Typical Ash Composition %	Element	Chemical Formula	Unit	Value
	Silicon	SiO ₃	d.b.	35.0
	Aluminium	Al ₂ O ₃	d.b.	20.0
	Iron	FE ₂ O ₃	d.b.	20.0
	Calcium	CaO	d.b.	11.0
	Magnesium	MgO	d.b.	3.0
	Sodium	Na ₂ o ₃	d.b.	0.3
	Potassium	K ₂ O ₅	d.b.	0.7
	Phosphorus	P ₂ O ₅	d.b.	0.3
	Titanium	TiO ₂	d.b.	1.0
	Sulphur	SO ₃	d.b.	9.0

Typical Sizing - mm	Size range	Typical	Range
	+ 50.00	2%	1-3%
	50.00 - 31.50	11%	8-13%
	31.50 - 22.40	9%	6-12%
	22.40 - 11.20	19%	17-20%
	11.20 - 4.75	23%	21-25%
	4.75 - 2.00	14%	12-15%
	2.00 - 1.00	9%	7-10%
	1.00 - 0.50	6%	5-7%
	- 0.50	9%	7-10%

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Trace Elements (Concentration mg/kg)	Antimony	a.r.	0.06
	Arsenic	a.r.	0.37
	Barium	a.r.	12.5
	Beryllium	a.r.	0.31
	Boron	a.r.	- 10
	Bromine	a.r.	12
	Cadmium	a.r.	0.01
	Chlorine	a.r.	0.01%
	Chromium	a.r.	1.99
	Cobalt	a.r.	1.3
	Copper	a.r.	1.32
	Fluorine	a.r.	40
	Lead	a.r.	1
	Lithium	a.r.	0.58
	Manganese	a.r.	8.83
	Mercury	a.r.	0.04
	Molybdenum	a.r.	- 0.01
	Nickel	a.r.	2.7
	Selenium	a.r.	.2
	Silver	a.r.	- 0.01
	Strontium	a.r.	2.7
	Thallium	a.r.	0.16
	Tin	a.r.	- 1
	Uranium	a.r.	0.07
	Vanadium	a.r.	4.53
	Zinc	a.r.	6.18
Zirconium	a.r.	3.9	